

EXHIBIT D

Samantha Joy Pulliam, M.D.

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UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF WEST VIRGINIA
CHARLESTON DIVISION

IN RE: ETHICON, INC., PELVIC) Master File No.
REPAIR SYSTEM PRODUCTS) 2:12-MD-02327
LIABILITY LITIGATION) MDL 2327

THIS DOCUMENT RELATES TO ALL
WAVE 4 AND SUBSEQUENT WAVE CASES
AND PLAINTIFFS:

Candy Breeden
Case No. 2:12cv04658

JOSEPH R. GOODWIN
U.S. DISTRICT JUDGE

Stephanie Browley
Case No. 2:12cv04515

Wendy Happel
Case No. 2:12cv03889

Ella Howard
Case No. 2:12cv03976

Charlotte Humphreys
Case No. 2:12cv04810

Cathy Kimsey
Case No. 2:12cv04814

Melanie Turner
Case No. 2:12cv03847

DEPOSITION OF SAMANTHA JOY PULLIAM, M.D.

GENERAL TVT and TVT-O

Friday, March 31, 2017

Chapel Hill, North Carolina

10:40 a.m.

Reported by: Karen K. Kidwell, RMR, CRR, CLR

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Samantha Joy Pulliam, M.D.

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<p>1 DEPOSITION of SAMANTHA JOY PULLIAM, M.D., 2 General TVT and TVT-O, a witness in the 3 above-entitled action, taken on behalf of Plaintiffs, 4 pursuant to the Federal Rules of Civil Procedures 5 before KAREN K. KIDWELL, RMR, CRR, a Certified 6 Shorthand Reporter, at Courtyard Chapel Hill, 100 7 Marriott Way, Chapel Hill, North Carolina, the 31st 8 day of March, 2017, at 10:40 a.m. 9 10 11 APPEARANCES 12 ON BEHALF OF PLAINTIFFS: 13 WILSON LAW, P.A. 14 Kimberly Wilson White, Esq. 15 Marc C. Downing, Esq. 16 111 Haynes Street 17 Suite 103 18 Raleigh, NC 27604 19 919.890.0181 20 kim@wilsonlawpa.com 21 marc@wilsonlawpa.com 22 23 ON BEHALF OF DEFENDANTS ETHICON and 24 JOHNSON & JOHNSON: 25 26 TROUTMAN SANDERS LLP 27 Eric Rumanek, Esq. 28 600 Peachtree Street, N.E. 29 Suite 5200 30 Atlanta, GA 30308 31 404.885.2606 32 eric.rumanek@troutmansanders.com</p>	<p>1 EXHIBITS (Cont'd) 2 Number Description Page 3 Pulliam 8 November 4, 2011, Rachel206 4 Zimmerman article, Surgery 5 Under Scrutiny: What Went 6 Wrong With Vaginal Mesh, 7 Confidential, Subject to 8 Stipulation and Order of 9 Confidentiality, Bates 10 JJM.MESH.00187664-669 11 Pulliam 9 E-mail chain, top e-mail252 12 10/2/2006, Marie Egan to 13 Melissa Doyle, Confidential, 14 Subject to Stipulation and 15 Order of Confidentiality, 16 Bates ETH.MESH.11529892-893 17 18 19 INSTRUCTIONS 20 Page 21 Instruction not to answer 105 22 23 24 25</p>
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<p>1 INDEX 2 WITNESS/EXAMINATION Page 3 SAMANTHA JOY PULLIAM, M.D. 4 By Ms. White 5 5 By Mr. Rumanek 255 6 7 EXHIBITS 8 Number Description Page 9 Pulliam 1 Notice to Take Deposition of23 10 Samantha Pulliam, M.D. 11 Pulliam 2 Thumb drive with documents25 12 Pulliam 3 Curriculum Vitae of Samantha30 13 J. Pulliam, M.D. 14 Pulliam 4 Expert Report of Samantha J.102 15 Pulliam, M.D. 16 Pulliam 5 Samantha Pulliam, General106 17 Reliance List in Addition to 18 Materials Referenced in 19 Report, MDL Wave 4 20 Pulliam 6 Samantha Pulliam, Supplemental111 21 General Reliance List in 22 Addition to Materials 23 Referenced in Report, MDL Wave 4 24 Pulliam 7 Gynecare TVT IFU, Highly152 25 Confidential, Subject to 26 Stipulation and Order of 27 Confidentiality, Bates 28 ETH.MESH.03427878-883</p>	<p>1 FRIDAY, MARCH 31, 2017, CHAPEL HILL, NORTH CAROLINA 2 PROCEEDINGS 3 -oOo- 4 SAMANTHA JOY PULLIAM, M.D. 5 being first duly sworn, testified as follows: 6 EXAMINATION 7 BY MS. WHITE: 8 Q. Dr. Pulliam, my name is Kimberly Wilson 9 White, and I'm here to take your deposition in 10 regards to you being designated as a general 11 urogynecology expert in wave 4, right? 12 MR. RUMANEK: Correct. 13 BY MS. WHITE: 14 Q. Wave 4 litigation. So you know why you're 15 here today? 16 A. I do. 17 Q. Okay. Very good. Have you ever given 18 your deposition before? 19 A. I have not. 20 Q. Okay. Can you please state your name for 21 the record? 22 A. Samantha Joy Pulliam. 23 Q. All right. Do you sometimes go by Mandy? 24 A. I do. 25 Q. What do your friends call you?</p>

2 (Pages 2 to 5)

Samantha Joy Pulliam, M.D.

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<p>1 A. My friends call me Mandy.</p> <p>2 Q. Okay. And where do you live?</p> <p>3 A. I current live in Chapel Hill.</p> <p>4 Q. And how long have you lived in</p> <p>5 Chapel Hill?</p> <p>6 A. Since January of 2016.</p> <p>7 Q. Okay. And you've never been deposed</p> <p>8 before?</p> <p>9 A. I have not.</p> <p>10 Q. Okay. So do you understand that the court</p> <p>11 reporter just placed you under oath?</p> <p>12 A. Yes.</p> <p>13 Q. So your testimony here today is</p> <p>14 virtually -- is the same as giving testimony under</p> <p>15 oath in a court of law. You understand that?</p> <p>16 A. I do.</p> <p>17 Q. So since you have not been deposed before,</p> <p>18 I'm going to go through some deposition rules that</p> <p>19 your counsel might have already gone over with you.</p> <p>20 I'm going to be asking you questions today in regards</p> <p>21 to your opinions about TVT and TVT-O. Can we agree</p> <p>22 that when I ask you a question about TVT, we're</p> <p>23 referring to the Ethicon TVT retropubic device?</p> <p>24 A. Yes.</p> <p>25 Q. Okay. And then TVT-O is the TVT obturator</p>	<p>1 Are you currently employed?</p> <p>2 A. I am.</p> <p>3 Q. How are you employed?</p> <p>4 A. I work as a physician at the University of</p> <p>5 North Carolina at Chapel Hill.</p> <p>6 Q. Okay. And you are soft-spoken. So I'm</p> <p>7 going to ask you to keep your voice up today, mainly</p> <p>8 for the court reporter. The court reporter here to</p> <p>9 my right is taking down everything that you say.</p> <p>10 This will be the official record of your testimony.</p> <p>11 So it's very important that she can hear your</p> <p>12 testimony.</p> <p>13 A. Okay.</p> <p>14 Q. So what -- what's your title with the</p> <p>15 university?</p> <p>16 A. I'm the division director of</p> <p>17 urogynecology. There's a longer title that involves</p> <p>18 urogynecology and female pelvic reconstructive</p> <p>19 surgery. And that's within the Department of</p> <p>20 Obstetrics and Gynecology at the University of North</p> <p>21 Carolina.</p> <p>22 Q. Okay. Did you just give me that longer</p> <p>23 title?</p> <p>24 A. I did.</p> <p>25 Q. And did you take over for Catherine</p>
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<p>1 device. Can we agree to that?</p> <p>2 A. Yes.</p> <p>3 Q. Okay. I'm going to be asking you</p> <p>4 questions. If you don't understand my question, ask</p> <p>5 me to rephrase it. I'll be glad to do that. If at</p> <p>6 any point during the deposition you need to take a</p> <p>7 break, I don't have a problem with that. The only</p> <p>8 thing I ask is that you answer the question that has</p> <p>9 been posed and you do not take breaks during my</p> <p>10 question.</p> <p>11 A. Okay.</p> <p>12 Q. Let's get through the question. You can</p> <p>13 take a break. So just to be clear, you have never</p> <p>14 given a deposition in a workers' compensation case?</p> <p>15 A. No.</p> <p>16 Q. Medical malpractice case?</p> <p>17 A. No.</p> <p>18 Q. And you've never been deposed in</p> <p>19 connection with a pelvic mesh case?</p> <p>20 A. I have not.</p> <p>21 Q. Okay. Have you ever testified in court?</p> <p>22 A. I have not.</p> <p>23 Q. You are probably the first doctor I've</p> <p>24 ever deposed in 22 years that has never been under</p> <p>25 oath before. Probably a good thing.</p>	<p>1 Matthews?</p> <p>2 A. Yes, I did.</p> <p>3 Q. And did you know Dr. Matthews before she</p> <p>4 left?</p> <p>5 A. I knew her, not well. I mean, I expect</p> <p>6 I've introduced -- been introduced to her at national</p> <p>7 meetings and maybe had a drink in a large group</p> <p>8 before.</p> <p>9 Q. Okay. Did Catherine reach out to you</p> <p>10 about applying for this position at UNC?</p> <p>11 A. No.</p> <p>12 Q. Okay. Have you ever talked to Catherine</p> <p>13 about any testimony she's ever given under oath in</p> <p>14 regards to the mesh litigation?</p> <p>15 A. Not that I recall.</p> <p>16 Q. Okay. Are you aware that she, in fact,</p> <p>17 also serves as a general urogyn expert in the mesh</p> <p>18 litigation?</p> <p>19 A. I was not aware of that.</p> <p>20 Q. And did you receive and review any portion</p> <p>21 of her deposition testimony in regards to mesh</p> <p>22 litigation?</p> <p>23 A. Not that I recall.</p> <p>24 Q. So do you currently see patients?</p> <p>25 A. Yes, I do.</p>

3 (Pages 6 to 9)

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1 Q. Okay. Tell me a little bit about that.
 2 On what days do you see patients?
 3 A. So I see patients a different day every
 4 week, probably on average three to four days a week.
 5 Q. Okay. What do you do on the other days?
 6 A. Well, sometimes I operate. I suppose that
 7 counts as seeing patients. And during the other
 8 days, I do work in terms of the administrative
 9 portion of my responsibility with regard to the
 10 division so making the schedule and working on the
 11 budget and things like that. I do teaching of
 12 residents and fellows within the university within
 13 the fellowship that's part of my division which is
 14 female pelvic medicine and reconstructive surgery so
 15 there's a fellowship there. We have three fellows
 16 and I teach them.
 17 I do some work with the American Urogyn
 18 Society where I'm the quality chair which means I
 19 oversee the development of a registry and work that
 20 goes into designing quality measures to ensure that
 21 urogynecologic procedures and practices are performed
 22 to specific standards that are required by, for
 23 example, the Center for Medicare and Medicaid
 24 Services. I go to a lot of meetings.
 25 Q. Okay. So let's break this down a little

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1 incontinence?
 2 A. Yes, I do.
 3 Q. So do you have your own set of patients
 4 that you see? For example, you'll see a patient who
 5 comes in, she is symptomatic for stress urinary
 6 incontinence. You would diagnose her and then
 7 perhaps do surgery on her?
 8 A. Yes, I do. I have my own set of patients,
 9 and then I also oversee fellows who have their own
 10 sets of patients, and I ensure that they are learning
 11 and that they're taking good care of patients while
 12 they're seeing them.
 13 Q. Okay. And then do you also treat patients
 14 who have been referred to you from other physicians?
 15 A. I do, although I'm not sure I would
 16 differentiate between my own set of patients and
 17 patients who are referred to me by other physicians.
 18 That's really one in the same sort of idea.
 19 I think there are a number of ways that a
 20 patient could come to me. They could be sent by
 21 another physician. They could find me themselves or
 22 they might be sent by the emergency room or some
 23 other referring source that's not specific to, you
 24 know, another private physician relationship.
 25 Q. Okay. Do you do research?

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1 bit. You said that you see patients three to four
 2 days a week?
 3 A. That's right.
 4 Q. And then how many days a week do you
 5 teach?
 6 A. Well, on some of those days that I'm
 7 doing -- working in the office or in the operating
 8 room, I'm also teaching. And then depending upon the
 9 week, there is a didactic conference on Wednesday
 10 mornings I'm responsible for running along with our
 11 fellowship director. And then, in addition to that,
 12 I do lectures and teaching of the residents on
 13 occasion.
 14 Q. So do you teach in the classroom?
 15 A. I give lectures sometimes or I'm usually
 16 more likely to do sort of an ad hoc teaching but
 17 not -- not a lot of classroom teaching, no.
 18 Q. So when you say you're teaching, it's
 19 mainly with residents and fellows that are with you
 20 as you're diagnosing and seeing patients?
 21 A. That's correct. Mainly.
 22 Q. So how many days a week do you operate?
 23 A. One to two.
 24 Q. Do you currently surgically treat patients
 25 who have been diagnosed with stress urinary

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1 A. Yes, I think so. I mean, I think I'm not
 2 a basic science researcher typically, although I have
 3 been involved in basic science over the course of my
 4 career. That's not currently my effort. I do
 5 research in quality of care primarily at this point.
 6 But I'm also part of a larger group of
 7 urogynecologists, and we do clinical trials and some
 8 device trials as part of the larger group. So my
 9 name would be on protocols for pretty much the span
 10 of things.
 11 Q. Okay. Tell me about this larger group of
 12 physicians.
 13 MR. RUMANEK: Just -- just as another kind
 14 of deposition tip, since she's taking everything
 15 down, make sure she finishes her question all
 16 the way before you start answering. That's so
 17 that you're not talking over each other.
 18 THE WITNESS: I understand.
 19 BY MS. WHITE:
 20 Q. And that wasn't a real good question. So
 21 what is this group of other physicians --
 22 A. Right.
 23 Q. -- that you've referred to that you all do
 24 clinical trials?
 25 A. Right. So the division that I oversee is

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1 a division of urogynecology and female pelvic
2 reconstructive surgery, and there are six physicians
3 and a nurse practitioner in the division, and so we
4 collaborate on research within that context. I
5 think -- I'm new to this group, but literature review
6 would show that most of the published papers from
7 this group involve the work of multiple physicians in
8 the group.

9 Q. Okay. Do you currently have clinical
10 trials going on right now?

11 A. I -- we do currently have clinical trials
12 going on right now, none that I personally am the
13 lead physician or investigator on.

14 Q. Do any involve polypropylene transvaginal
15 mesh products?

16 A. No, they do not. There is a research
17 project that's involved Pelvetex, but we are the
18 native tissue arm of that. So I guess in its
19 extension, it's a multicentered trial. There may be
20 other things besides native tissue that are used, but
21 for our group, we have used -- we have not used -- we
22 have only used the native tissue.

23 Q. Okay. So other than your position at UNC,
24 your current position, do you receive income from any
25 other source?

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1 A. Nothing comes to mind as a major source of
2 income. I think I have received a little bit of
3 income over the past probably seven years for some
4 legal review that's never resulted either in
5 deposition or sort of anything that's gone to court
6 to the tune of maybe 3 or \$4,000 over the course of
7 the last ten years. But I don't remember much about
8 it. I couldn't even tell you who -- who it was.

9 Q. Okay. Have you ever been -- so let's talk
10 about that a little bit.

11 A. Okay.

12 Q. So you've been paid 3 to \$4,000 to review
13 a case. Would that be a medical malpractice case?

14 A. Yes, that's it.

15 Q. Okay. Have you currently been paid by
16 J & J for any of your work involving this litigation,
17 the mesh litigation, whether it's wave 1, 2, 3, or 4,
18 have you been paid by J & J for being an expert in
19 the mesh litigation?

20 A. No, I have not.

21 Q. Okay. Are you keeping track of your time?

22 A. I am.

23 Q. Okay. Why have you not submitted an
24 invoice?

25 A. Well, my plan was to submit an invoice

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1 after this deposition, but it has -- it was
2 rescheduled a couple of times, and so it's just been
3 I was going to do it all together at the end of this
4 sort of phase of this work. And this has stretched
5 out so it just hasn't happened yet.

6 Q. Okay. I need to ask you some questions
7 about the work that you've done since I don't have
8 the invoices.

9 A. Okay.

10 Q. Okay. So to date, how much time have you
11 spent working as a general urogy expert for the mesh
12 litigation?

13 MR. RUMANNEK: Let me just make sure the
14 question is clear. Are you talking about just
15 her general, because she also worked on some
16 case specific, and I just want to make sure you
17 all are talking about the same.

18 BY MS. WHITE:

19 Q. Okay. Let's break that down. Okay?

20 A. Okay.

21 Q. Because we would have gone there anyways.
22 So in terms of your general urogy expert work, how
23 many hours have you spent as of today's date
24 excluding the 15 minutes we have been in the
25 deposition?

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1 A. Okay. Well, I think to write the report
2 that I submitted, probably -- I mean, I haven't
3 totaled these, to be honest with you, but I think
4 probably over 40 hours, maybe 43 hours or so on the
5 generation of the report. And then probably over the
6 last several weeks, I've spent maybe 10 hours or so
7 reviewing the things that I wrote and working in
8 preparation for this.

9 Q. What do you mean "for this"?

10 A. For this deposition.

11 Q. Okay. But prior to writing the report,
12 did you do any research to get yourself in a position
13 to write the report or does that 43 hours include all
14 of that?

15 A. I would say that 43 hours includes all of
16 that.

17 Q. Okay. So your testimony here today is
18 that you've spent about 53 hours of time as a general
19 urogy expert for wave 4?

20 A. I think that's about how much time I've
21 spent working on this case.

22 Q. But you have not submitted your invoice to
23 J & J as of date because you're waiting until this
24 deposition is over?

25 A. That's it.

5 (Pages 14 to 17)

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1 MR. RUMANEK: And I'll just note on the
2 record that we can provide the invoice when we
3 get it, and I think that will -- we can agree
4 that will reflect the accurate time --
5 THE WITNESS: Absolutely.
6 MR. RUMANEK: -- to the best of her
7 ability.
8 BY MS. WHITE:
9 Q. Okay. So now let's talk about case
10 specific. In how many cases have you been designated
11 a case specific urogyn expert for J & J?
12 A. So I'm not sure -- so designated and
13 actually happened are probably two different kinds of
14 questions. I -- I was given maybe three or four
15 cases to review. And I reviewed a couple of those.
16 But somewhere in the process of that, those were not
17 things that went forward. So I -- I'm not sure
18 designated meaning they were assigned to me. I'm
19 sure that that's true. But I think in terms of
20 actually going forward with being that expert, I
21 haven't really spent a lot of time on that.
22 Q. Okay. I don't care whether or not the
23 cases went forward.
24 A. Okay.
25 Q. I'm trying to ascertain how much time you

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1 have worked as an expert in which you're going to
2 bill J & J.
3 A. I see. Probably about 15 hours, maybe a
4 little bit less than that. I have spent less time --
5 actually, I mean, I've given -- written this down in
6 my system, provided it for my secretary who keeps
7 track of things, but I haven't looked at that because
8 it was such an abrupt end to the process.
9 Q. Okay. So if I understand your testimony
10 correctly, there is about 15 hours in case specific
11 work that you've done that you have not billed J & J
12 for yet?
13 A. That's right. And it's a very rough
14 estimate.
15 Q. Okay. Well, do you think it could be less
16 or more?
17 A. I don't know.
18 MR. RUMANEK: Object to the form.
19 BY MS. WHITE:
20 Q. And when do you plan to submit those
21 invoices because those cases are over.
22 A. Right. So, they are. And I -- at least I
23 assume so. I think my impression was that they were
24 on hold. So I guess -- but I -- this had all
25 transpired in a way that I seemed at this point,

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1 because this is the first time I've done this
2 perhaps, to happen in a block. So my plan had been
3 to submit the whole of it together at the end of
4 these depositions which were initially planned to be
5 closer together than now they apparently are.
6 Q. Did anyone tell you not to submit your
7 invoices prior to this deposition?
8 MR. RUMANEK: Object to the form. I
9 don't even -- that would necessarily involve I
10 guess discussion with counsel. Don't tell her
11 anything that you discussed with counsel to the
12 extent that anybody else may have told you that.
13 THE WITNESS: I haven't discussed it with
14 anyone else.
15 BY MS. WHITE:
16 Q. Okay. So, again, if I understand your
17 testimony correctly, the work you've done on the case
18 specific cases, which isn't connected to this depo
19 today, you haven't invoiced J & J, but after this
20 depo is over, you're going to invoice them for that
21 work as well?
22 A. That's correct. I think, you know, some
23 of this has to do with my new understanding of how
24 this works. I know that at this point, now, there's
25 sort of the general deposition, and then there are

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1 depositions regarding each individual patient. But I
2 think when I went into this, that was a process that
3 I was still learning about. So moving forward, I may
4 do it differently. But that's what I've done this
5 time.
6 Q. So are -- I want to get back to income
7 from other sources.
8 A. Sure.
9 Q. Okay. I don't know if we covered that
10 other than you're an expert for J & J, and you're
11 going to get paid. You work for UNC?
12 A. That's correct.
13 Q. Do you receive income from any other
14 service -- places?
15 A. You mean, am I employed? I have stocks
16 and investments and all those sorts of things that
17 are on my tax returns.
18 Q. No, no, income. Are you receiving income
19 in any other capacity being on a board, serving as an
20 expert for another pharmaceutical company? Are you
21 receiving income?
22 A. I'm not on a board. I have not received
23 income that I can recall from any other
24 pharmaceutical company or any other entity.
25 Q. So your income -- income comes from UNC?

6 (Pages 18 to 21)

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1 A. Uh-huh.
 2 Q. And then your time working as an expert
 3 for J & J?
 4 A. That's right.
 5 Q. Okay. Do you need to change that?
 6 A. No. I don't need to change that except to
 7 say that the setup -- the arrangement for legal work
 8 with the University of North Carolina actually will
 9 pay the University of North Carolina for my services.
 10 In other words, the funds received don't come
 11 directly to me without going through them first.
 12 And a large portion of the work that I do
 13 here will have monies that are intentionally directed
 14 towards resident education and other work within the
 15 university. So whenever I submit my bill, the income
 16 that is created from that is not going to come only
 17 to me. And it will be managed by university.
 18 Q. Do you receive a portion of that income?
 19 A. No.
 20 Q. Okay. And I'm familiar -- I work with
 21 other experts at UNC. So I know what you're talking
 22 about. But -- but your department benefits from that
 23 income?
 24 A. That's correct.
 25 MR. RUMANEK: Object to the form.

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1 BY MS. WHITE:
 2 Q. And, in fact, that money could be used for
 3 research that you personally wanted to do or clinical
 4 trials or -- I mean, you'll have -- that money will
 5 come to your division.
 6 A. Right. Some of the funding will come to
 7 my division, and some to the greater department and
 8 the university. And there are, you know, specific
 9 things that I can do with it such as research and
 10 education. There are other things I cannot do with
 11 it.
 12 Q. And who makes the decision for your
 13 department where that money goes?
 14 A. The chair of the department.
 15 Q. And who's your chair?
 16 A. Daniel Clarke-Pearson. I must say I think
 17 he probably refines the decision. I suspect that
 18 it's a larger decision that is on the part of the
 19 medical school, but I'm not privy to those decisions.
 20 Q. Okay. So I'm handing you what we have
 21 marked as Exhibit 1.
 22 (Pulliam 1 was marked for identification.)
 23 BY MS. WHITE:
 24 Q. Okay. So I'm handing you what we have
 25 marked as Exhibit 1, which is the notice of your

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1 deposition. Then -- so, Dr. Pulliam, because I know
 2 you are new to this, I'm going to be handing to you
 3 exhibits that have exhibit stickers on them. At the
 4 end of the day, we have to all work together to make
 5 sure that those exhibits get back to the court
 6 reporter if it has a sticker on it.
 7 MR. RUMANEK: So I'll just say to the best
 8 that you can, and we can all track them down
 9 again, if we need to. Once we're done with one,
 10 why don't we just try to create a stack in that
 11 corner of the table that is closer to the court
 12 reporter because there are other documents.
 13 THE WITNESS: Okay, that's fine. I'll try
 14 to do that.
 15 BY MS. WHITE:
 16 Q. Have you seen Exhibit 1 prior to today?
 17 A. Yes, I have.
 18 Q. And what did you bring with you in
 19 response to your notice of deposition?
 20 A. I think I brought here the things that you
 21 see before you. These are collection of the articles
 22 that I've used.
 23 MR. RUMANEK: And I'll just note on the
 24 record, also, that we brought a copy of the
 25 report, a copy of her CV, and I've already given

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1 opposing counsel prior to the deposition so she
 2 could have a chance to look at it a thumb drive.
 3 We also have a reliance list which I think you
 4 already have as well.
 5 MS. WHITE: Okay. And can we agree, Eric,
 6 that you will submit her invoices when you
 7 receive them?
 8 MR. RUMANEK: Yes.
 9 (Pulliam 2 was marked for identification.)
 10 BY MS. WHITE:
 11 Q. All right. And Exhibit 2 for the record
 12 is the thumb drive that you brought with you today?
 13 A. Uh-huh.
 14 Q. Okay? All right. How -- and you can put
 15 Exhibit 1 to the side.
 16 MR. RUMANEK: Kim, let me just --
 17 MS. WHITE: Yes, sir.
 18 MR. RUMANEK: -- I just want to put it on
 19 the record because then tracking it down later
 20 may be difficult. There's a password protection
 21 on the thumb drive that is Pulliam --
 22 PULLIAM2017.
 23 MS. WHITE: I'm going to go ahead and
 24 write that for the court reporter. Pulliam2017?
 25 MR. RUMANEK: There's no spaces.

7 (Pages 22 to 25)

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<p style="text-align: right;">Page 26</p> <p>1 MS. WHITE: Okay. That's written at the</p> <p>2 bottom of the exhibit, Madame Court reporter.</p> <p>3 And, sadly, it's in the -- on the date line.</p> <p>4 All right. So you've got that then.</p> <p>5 BY MS. WHITE:</p> <p>6 Q. So what did you do to prepare for today's</p> <p>7 deposition?</p> <p>8 MR. RUMANEK: And let me just -- I don't</p> <p>9 believe that she's asking you to discuss what</p> <p>10 you and I have discussed. I think she's asking</p> <p>11 more just general questions. Don't at any point</p> <p>12 during the deposition get into what you and I</p> <p>13 may have discussed.</p> <p>14 BY MS. WHITE:</p> <p>15 Q. So let's do it this way. Let's break it</p> <p>16 down. Did you meet with the lawyer sitting to your</p> <p>17 right in preparation for the deposition?</p> <p>18 A. I did.</p> <p>19 Q. Okay. And without discussing anything</p> <p>20 that you and he talked about during that meeting or</p> <p>21 meetings, tell me, first of all, how many times did</p> <p>22 you meet with him?</p> <p>23 A. We met in -- at the University of North</p> <p>24 Carolina once a few weeks ago. I don't remember the</p> <p>25 date.</p>	<p style="text-align: right;">Page 28</p> <p>1 conferences with either Eric or other lawyers or</p> <p>2 J & J representatives to get ready for today's</p> <p>3 deposition?</p> <p>4 A. So there were no meetings with J & J</p> <p>5 representatives. And I have met with attorneys on</p> <p>6 the phone I want to say two or three times in the</p> <p>7 process of this, specifically within -- probably</p> <p>8 twice.</p> <p>9 Q. Okay. So tell me, two or three times,</p> <p>10 let's take the first phone conference you had.</p> <p>11 A. Okay.</p> <p>12 Q. Do you remember when that occurred?</p> <p>13 A. No.</p> <p>14 Q. Okay. Was it -- was it within the last</p> <p>15 month?</p> <p>16 A. Yes, it was within the last month.</p> <p>17 Q. Was it during the month of March? Today</p> <p>18 is 31 so . . .</p> <p>19 A. Most likely. I -- I am not very good with</p> <p>20 dates. And I was away on vacation last week so now</p> <p>21 I'm completely disrupted with regard to dates.</p> <p>22 Q. All right. How long did that conversation</p> <p>23 last?</p> <p>24 A. Probably about an hour and a half.</p> <p>25 Q. Okay. So tell me about telephone</p>
<p style="text-align: right;">Page 27</p> <p>1 Q. You don't remember the date?</p> <p>2 A. And then this morning briefly -- I do not.</p> <p>3 And then this morning briefly. I think that's all of</p> <p>4 our face-to-face meetings.</p> <p>5 Q. So you met here at UNC. How long did that</p> <p>6 meeting last?</p> <p>7 A. Probably about two and a half or three</p> <p>8 hours. Maybe three and a half.</p> <p>9 Q. So you think three and a half hours?</p> <p>10 MR. RUMANEK: Object to the form.</p> <p>11 THE WITNESS: Somewhere between two and a</p> <p>12 half and three and a half.</p> <p>13 BY MS. WHITE:</p> <p>14 Q. And there's something else that's going to</p> <p>15 happen today. He's going to object sometimes,</p> <p>16 hopefully not a lot. You need to answer the question</p> <p>17 unless he instructs you not to answer the question.</p> <p>18 But --</p> <p>19 A. I understand.</p> <p>20 Q. -- he'll be objecting for the record.</p> <p>21 A. I understand.</p> <p>22 Q. All right. So you met this morning. How</p> <p>23 long did you meet this morning?</p> <p>24 A. Probably about an hour and 15 minutes.</p> <p>25 Q. Okay. And then did you have any telephone</p>	<p style="text-align: right;">Page 29</p> <p>1 conference number two. When did that happen?</p> <p>2 A. Wednesday night.</p> <p>3 Q. Okay.</p> <p>4 A. Okay.</p> <p>5 Q. And how long did that conversation last?</p> <p>6 A. Again, about an hour and a half.</p> <p>7 Q. Okay. Tell me about conversation number</p> <p>8 three. When did that occur?</p> <p>9 A. So that was probably more remote and maybe</p> <p>10 was about 45 minutes.</p> <p>11 Q. When did it occur?</p> <p>12 A. I'm guessing in the end of February, but I</p> <p>13 couldn't be sure about the dates.</p> <p>14 Q. Okay. But all this will be reflected on</p> <p>15 the invoices that you send to J & J?</p> <p>16 A. Yes.</p> <p>17 Q. Okay. All right. I want to talk to you a</p> <p>18 little bit about your background before we get into</p> <p>19 your report. Where did you go to high school?</p> <p>20 A. I went to the Stony Brook School which is</p> <p>21 a small boarding school in Stony Brook, New York on</p> <p>22 Long Island.</p> <p>23 Q. Where did you grow up?</p> <p>24 A. Beckley, West Virginia.</p> <p>25 Q. So did I.</p>

8 (Pages 26 to 29)

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1 A. Did you really? No kidding.
 2 Q. Yes, ma'am. Where did you go to high
 3 school? Oh, you said Stony Brook.
 4 A. Did you go to Woodrow Wilson High School?
 5 I guess I'm not supposed to ask you questions.
 6 Q. I went to --
 7 MR. RUMANEK: She'll make an exception if
 8 you're talking about Beckley, West Virginia, I
 9 think.
 10 MS. WHITE: I will. Also, the only doctor
 11 I've ever deposed from Beckley, West Virginia.
 12 No, I went to the country school. I went to
 13 Liberty. I could have went to Woodrow, but my
 14 parents would have had to have driven me to the
 15 bus stop.
 16 THE WITNESS: I understand.
 17 MS. WHITE: Hence I went to Liberty.
 18 THE WITNESS: I understand.
 19 BY MS. WHITE:
 20 Q. Okay. So you went to Stony Brook. Okay.
 21 And after Stony Brook, you attended Duke?
 22 A. I did.
 23 (Pulliam 3 was marked for identification.)
 24 BY MS. WHITE:
 25 Q. Okay. I'm handing you what we have marked

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1 as Exhibit 3. It is the CV that made its way to me
 2 through your lawyer.
 3 A. Okay. Thank you.
 4 Q. You can take a look at that and why don't
 5 you tell me if that is the most up-to-date CV you
 6 have?
 7 A. I believe so.
 8 Q. Okay. All right. Let's talk about that.
 9 So after Duke, if I'm tracking it all correctly, you
 10 graduated in 1990?
 11 A. That's right.
 12 Q. Is that right?
 13 A. Uh-huh.
 14 Q. So what -- what did you do between 1990
 15 and 1994 because it looks like to me there's a gap
 16 before you started med school.
 17 A. There is, there is.
 18 Q. So what was going on during those years?
 19 A. So I did quite a few things during that
 20 time. I worked for a religious organization, Campus
 21 Crusade for Christ, and I worked counseling students
 22 at Syracuse University, and I worked --
 23 Q. Excuse me. Where?
 24 A. Counseling students at Syracuse University
 25 in New York. I worked in the summertime, for at

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1 least two summers, working in the inner city, soup
 2 kitchens and homeless shelters and so forth. Then I
 3 left Campus Crusade probably about a year and a half
 4 after I began that work and spent a brief time at
 5 Columbia University Teacher's College, thought I was
 6 going to pursue a degree in counseling psychology.
 7 But during that time, I realized I really
 8 wanted to go to medical school. So I took a job then
 9 in an effort to become more involved in medicine at
 10 Sloan Kettering Cancer Center.
 11 Q. Where?
 12 A. Memorial Sloan Kettering Cancer Center in
 13 New York City, Manhattan, where I served as a
 14 research coordinator for clinical trials in the
 15 Department of Gastroenterology. And then I got into
 16 medical school and moved to Winston-Salem in the
 17 summer of 1994.
 18 Q. Okay. Let me break some of that down.
 19 Okay, you -- after you graduated Duke, is the first
 20 thing you did was take a job for Campus Crusade for
 21 Christ?
 22 A. That's correct.
 23 Q. All right. So how long did you work for
 24 Campus Crusade for Christ?
 25 A. I think about a year and a half.

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1 Q. Is it during that job where you were
 2 working in the inner city?
 3 A. That's correct.
 4 Q. Okay.
 5 A. So that I worked with college students.
 6 So they were generally in college during the academic
 7 year, and then in the summertime, they weren't there
 8 and neither was I. So then I would work with those
 9 college students in a different setting which was in
 10 the inner city.
 11 Q. Okay. So then I have it mid-1992, you
 12 left Campus Crusade for Christ?
 13 A. I think that's the right year, yes.
 14 Q. Okay. And then where did you go after
 15 that?
 16 A. I moved to New York City.
 17 Q. You moved to New York City. And what did
 18 you do in New York City?
 19 A. I spent a semester in graduate school.
 20 Q. All right. And that was at Columbia
 21 University Teacher's College?
 22 A. That's correct.
 23 Q. Okay. How long were you in grad school?
 24 A. I was there for one semester.
 25 Q. Okay. So why did you leave Columbia after

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1 one semester?

2 A. Well, I had intended a degree in

3 counseling psychology. But the semester really made

4 me realize that I needed a deeper understanding of

5 medicine and biology and human biology. And so as a

6 biology major at Duke, I had toyed with the idea of

7 medical school, and I realized that that's what I

8 needed to do. And so in order to move there, towards

9 that goal as expeditiously as possible, I stopped the

10 graduate program, worked in research, took the MCAT

11 and pursued medical school.

12 Q. So prior to being enrolled at Columbia

13 University, you had not taken the MCAT?

14 A. That's correct.

15 Q. Okay. So after Columbia University, after

16 you left there, what did you do?

17 A. I worked at Sloan Kettering Cancer Center.

18 Q. Okay. All right. And how long were you

19 there?

20 A. Probably about another year and a half.

21 Q. During this time, were you trying to get

22 in med school?

23 A. So I was completing the application

24 process to get into medical school. I took the MCAT,

25 and once that was accomplished, I applied to medical

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1 school.

2 Q. Okay. Is Wake Forest the only med school

3 you applied to?

4 A. No.

5 Q. Okay. Where else did you apply?

6 A. I applied to Columbia University and West

7 Virginia University.

8 Q. And then Wake Forest University?

9 A. And Wake Forest University.

10 Q. Did you get in Columbia?

11 A. No, I did not.

12 Q. Did you get in WVU?

13 A. No, I did not.

14 Q. You got in Wake Forest?

15 A. I did.

16 Q. Well, my brother went to WVU about the

17 same time you did so we got a lot of --

18 A. A lot of connections.

19 Q. A lot of connections. Okay. So then what

20 year did you graduate medical school?

21 A. 1998.

22 Q. Okay. What kind of grades did you make in

23 med school?

24 A. I believe I was in the upper third of my

25 class. I participated in an alternative program. It

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1 was called the parallel curriculum. I don't think

2 Wake Forest still has it, but it was a small group,

3 didactic learning experience as opposed to a lecture

4 hall which is a traditional medical school format,

5 and so the class rank based on that was a little bit

6 diluted and different because there weren't

7 examinations and ranks so I don't know exactly where

8 I was in the class rank.

9 Q. Okay. So after graduating medical school,

10 did you enter into medical residency program?

11 A. I did.

12 Q. Okay. And that would be you were an

13 intern in anatomic pathology at Mass General?

14 A. Correct.

15 Q. Was this the only residency program you

16 tried to get into?

17 A. No, it wasn't.

18 Q. Okay. Tell me about the others you

19 applied to.

20 A. I applied actually to pediatrics residency

21 programs, and there's a long list, the names I don't

22 recall. It's been a long time. I really wanted to

23 be in Boston or in the Northeast. I think probably I

24 would have been happy with New York or Washington,

25 D.C. or Philadelphia so I concentrated my efforts

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1 there.

2 Q. So let me stop you there. Why did you

3 really want to be in Boston?

4 A. Well, I had gone to high school on Long

5 Island. I guess Boston's probably not right. I

6 really wanted to be in New England or the Northeast.

7 I went to high school on Long Island and I liked the

8 New England area and Boston has a great reputation

9 for training programs.

10 Q. Okay. So you tried to get into a peds

11 residency program?

12 A. That's right.

13 Q. And was anatomic pathology your plan B?

14 A. It was.

15 Q. All right. So you go into the residency

16 program. And help me here. When you say you're an

17 intern, that was the first year of an official

18 recognized residency program?

19 A. That's absolutely correct.

20 Q. Okay. All right. So it looks like to me

21 you stayed there one year?

22 A. I did.

23 Q. Okay. Why did you leave that residency

24 program?

25 A. Well, residency training is a very

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<p style="text-align: right;">Page 38</p> <p>1 different experience than medical school. You focus 2 in on, you know, one specific discipline. And 3 pathology is sort of an interesting experience 4 because you receive specimens to examine from many 5 different disciplines and you're exposed to lots of 6 things. 7 Massachusetts General Hospital where I did 8 my pathology residency or internship had a vast 9 surgical source for pathology specimens and a really 10 excellent educational program and I was exposed to a 11 lot of things there. I also learned what it was like 12 to do pathology, and during the course of that year, 13 I realized that I probably wasn't well cut out for 14 pathology, and, in fact, I might prefer something 15 that had a little more active role such as a surgical 16 specialty and, also, that perhaps I talked too much 17 to be a very good pathologist which is really a 18 solitary experience. 19 So I -- I chose to pursue obstetrics and 20 gynecology which was not pediatrics, but it was 21 certainly part of my experience at Mass General to 22 learn about OB/GYN, as part of my pathological -- 23 pathological -- pathology exposure. 24 Q. All right. So during this anatomic 25 pathology internship, did you apply to peds</p>	<p style="text-align: right;">Page 40</p> <p>1 is -- there are specimens that are taken. I mean, a 2 prime example might be a cancer specimen that's 3 removed and then determination about future treatment 4 about the diagnosis is made based upon the 5 microscopic examination of specimens. Also included 6 in anatomic pathology are things like autopsy and 7 understanding perhaps of what caused the death. 8 Q. How does -- how does anatomic pathology 9 differ from clinical pathology? 10 A. Clinical pathology in general deals more 11 with the laboratory and with, you know, blood samples 12 and kind of liquids as opposed to solids I guess is a 13 simple way to explain it. 14 Q. Okay. As you sit here today, you do not 15 consider yourself a pathologist, correct? 16 MR. RUMANNEK: Object to the form. 17 THE WITNESS: I've had pathology training 18 and additional specific pathology training as it 19 pertains to obstetrics and gynecology. 20 BY MS. WHITE: 21 Q. Okay. Simple question. Are you a 22 pathologist? 23 A. I'm not a board-certified pathologist. 24 Q. Okay. And here at UNC, do you practice in 25 the area of pathology?</p>
<p style="text-align: right;">Page 39</p> <p>1 residency? Did you continue to try or is your 2 testimony that you decided you wanted to go into 3 OB/GYN, so hence you started down the OB/GYN road? 4 A. So I was conflicted. You know, I had gone 5 down the pediatrics road in the past, and I think 6 changing directions is always a challenge. And I -- 7 I initially started in pediatrics, again, but 8 realized at some point that OB/GYN would be a better 9 option for me. 10 Q. So you did apply to peds? 11 A. That's correct. 12 Q. Okay. So then was OB/GYN kind of the plan 13 B if you didn't get into the peds residency programs 14 again? 15 A. You know, I suppose in hindsight, the 16 answer to that is yes. But I think, also, you know, 17 medicine is a process, and figuring out where you fit 18 in medicine is sort of a process of self-discovery. 19 And I think, you know, I would say that things 20 evolve, you know. I mean, you realize where you 21 belong over time. And certainly on this side of it, 22 I would never turn back. 23 Q. Okay. Why don't you tell the jury what is 24 anatomic pathology? 25 A. So patients go to surgery. And there</p>	<p style="text-align: right;">Page 41</p> <p>1 MR. RUMANNEK: Object to the form. 2 THE WITNESS: I think that I interact with 3 pathology almost every day, and certainly, I 4 evaluate the pathology specimens of my patients 5 when I perform hysterectomies, cystectomies, and 6 other gynecologic procedures. 7 BY MS. WHITE: 8 Q. Okay. I just -- do you practice -- are 9 you a practicing pathologist? 10 A. Is my -- no, I'm employed through the 11 OB/GYN department at the University of North 12 Carolina. 13 Q. Have you ever held yourself out as a 14 pathologist at any institution where you've worked? 15 MR. RUMANNEK: Object to form. 16 THE WITNESS: I have not held myself out 17 as a pathologist at any institution where I've 18 worked since I was a fellow in pathology. 19 BY MS. WHITE: 20 Q. Okay. And then you talked about other 21 training you've had in pathology after the one year 22 in anatomic pathology at Mass General. Please tell 23 the jury about that. 24 A. So training in pathology, the assessment 25 and understanding of pathologic specimens in</p>

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<p>1 obstetrics and gynecology is part of the training</p> <p>2 program there, part of the residency training.</p> <p>3 Q. Have you ever written and published in a</p> <p>4 peer-reviewed journal anything pertaining to -- to</p> <p>5 pathology or pathology research that you've done?</p> <p>6 A. No, I don't believe I have.</p> <p>7 Q. All right. So did you apply to Mass</p> <p>8 General's OB/GYN residency program?</p> <p>9 A. No, I did not. Not as an initial</p> <p>10 application.</p> <p>11 Q. Okay. So where all did you apply because</p> <p>12 you -- basically, you're leaving what would have been</p> <p>13 a three-year residency program in pathology?</p> <p>14 A. That's right.</p> <p>15 Q. Okay. And you did complete the one year?</p> <p>16 A. That's right.</p> <p>17 Q. Okay. What were your grades like?</p> <p>18 A. There are no grades in a residency</p> <p>19 program. I was urged to stay, so it's not -- you</p> <p>20 know -- I did well in the program. My evaluations</p> <p>21 were good.</p> <p>22 Q. Okay. Where all did you apply to OB/GYN</p> <p>23 residency?</p> <p>24 A. So I didn't apply to OB/GYN residency</p> <p>25 programs. I took an available position at what's now</p>	<p>1 training program. And sometimes in medical training,</p> <p>2 you go where you must. And when an opportunity arose</p> <p>3 to be back in a place that I wanted to be, I for</p> <p>4 personal reasons chose to pursue work at Boston</p> <p>5 Medical Center where there was an available spot for</p> <p>6 a person in second year of residency.</p> <p>7 Q. Okay. So what do you mean by "for</p> <p>8 personal reasons"?</p> <p>9 A. Well, there's certainly more to life than</p> <p>10 work. There are relationships and other aspects of</p> <p>11 life that are compelling to almost everyone, and that</p> <p>12 was true for me.</p> <p>13 Q. Okay. So did you -- did you have a</p> <p>14 significant other or family in Boston?</p> <p>15 A. I had significant attachments in Boston.</p> <p>16 Q. Okay. So you leave Medical College of</p> <p>17 Ohio, it's your testimony, because you had personal</p> <p>18 relationships in Boston, and you wanted to get to</p> <p>19 Boston?</p> <p>20 A. That's right.</p> <p>21 Q. Okay. All right. So you were at Boston</p> <p>22 Medical Center from July 2000 to June of 2001. And</p> <p>23 then it looks like to me there's a break.</p> <p>24 A. There was no break.</p> <p>25 Q. Okay. Then your CV is incorrect.</p>
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<p>1 the university -- I think the University of Toledo</p> <p>2 Medical College of Ohio. And I moved there to spend</p> <p>3 my first year as an intern in obstetrics and</p> <p>4 gynecology there.</p> <p>5 Q. Why did you choose Medical College of</p> <p>6 Ohio?</p> <p>7 A. Among the available programs, it was the</p> <p>8 best program that I could be in. Lou Weinstein, who</p> <p>9 is chair of the department there, is known as a</p> <p>10 former chair I think of the American College of</p> <p>11 Obstetrics and Gynecology and a prominent person in</p> <p>12 OB/GYN. And so I thought it would be a good training</p> <p>13 program.</p> <p>14 Q. Do you consider it a leading academic</p> <p>15 medical institution?</p> <p>16 MR. RUMANNEK: Object to form.</p> <p>17 THE WITNESS: I would say that it is a</p> <p>18 leading academic medical institution. It's not</p> <p>19 Harvard University, but it's -- it provides a</p> <p>20 ACGME accredited obstetrics and gynecology</p> <p>21 training.</p> <p>22 BY MS. WHITE:</p> <p>23 Q. Okay. So why did you leave there after</p> <p>24 one year?</p> <p>25 A. So as I mentioned, that was an available</p>	<p>1 A. That's possibly true.</p> <p>2 Q. Okay.</p> <p>3 A. That's possibly true. What I did there</p> <p>4 was I completed a year of residency at Boston Medical</p> <p>5 Center.</p> <p>6 Q. Okay.</p> <p>7 A. Part of that year involved three months</p> <p>8 spent at Massachusetts General Hospital delivering</p> <p>9 babies.</p> <p>10 Q. Okay.</p> <p>11 A. And during that time, I was recruited to</p> <p>12 be part of the third year OB/GYN class at</p> <p>13 Massachusetts General Hospital, Brigham and Women's</p> <p>14 Hospital. They had a vacancy, and I applied and was</p> <p>15 accepted to be part of that program.</p> <p>16 Q. Okay. So what I want you to do, Doctor,</p> <p>17 is take a look at your CV.</p> <p>18 A. Yes.</p> <p>19 Q. And correct the mistake. Because it says</p> <p>20 here June 2000 through June 2001, you were a resident</p> <p>21 OB/GYN Boston Medical Center.</p> <p>22 A. Yes.</p> <p>23 Q. And then we jump to July of 2002 --</p> <p>24 A. You're correct. That 2 should be a 1.</p> <p>25 Q. Okay.</p>

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1 A. I was there for two years.
 2 Q. All right. Makes sense. So let's back up
 3 for a second.
 4 A. Okay.
 5 Q. From -- in -- during your time at Medical
 6 College of Ohio, did you surgically treat stress
 7 urinary incontinence?
 8 A. I would say as an intern, it's possible
 9 that I participated in cases that included stress
 10 urinary incontinence, but that's not the major role
 11 of an intern in any training program.
 12 Q. Okay. Did you implant polypropylene mesh
 13 devices during that time?
 14 A. I don't -- I don't recall.
 15 MR. RUMANEK: Wait, wait. Make sure she
 16 finishes her question.
 17 THE WITNESS: I'm sorry.
 18 BY MS. WHITE:
 19 Q. Did you implant -- did you surgically
 20 implant polypropylene mesh devices for the treatment
 21 of stress urinary incontinence while you were at
 22 Medical College of Ohio?
 23 A. I don't recall. I'm considering my time
 24 spent with the urogynecologist there, and I know I
 25 did spend time with him, but I don't recall if he was

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1 and there are very junior residents who may observe
 2 or interact with attending physicians about a number
 3 of different things. But they're rarely performing
 4 things independently or actually doing almost
 5 anything except perhaps a cesarean section which is a
 6 different kind of focus for the intern.
 7 So I don't necessarily recall actually
 8 placing mesh myself, but I'm not sure that I would do
 9 anything myself as an intern. I know that that's not
 10 the case.
 11 Q. All right. So during your one year at
 12 Boston Medical Center, did you become familiar with
 13 or implant polypropylene mesh devices in women for
 14 the treatment of stress urinary incontinence?
 15 A. So at Boston Medical Center, I know that
 16 we were -- we meaning the larger Department of
 17 Obstetrics and Gynecology -- using mesh implants. I
 18 participated in surgeries that were -- along with
 19 urogynecologists there. Whether I specifically
 20 placed the mesh implants or assisted or were part of
 21 that experience, yeah, I think so.
 22 Q. Okay. Well, your expert report --
 23 A. Right.
 24 Q. -- which you submitted to the court in
 25 this case --

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1 performing those procedures at the time and that his
 2 choice to perform them would be the only reason I
 3 would have participated in a surgery.
 4 Q. Okay. So you don't recall any experience
 5 or exposure to polypropylene mesh devices during that
 6 time at Medical College of Ohio?
 7 MR. RUMANEK: Object to form.
 8 BY MS. WHITE:
 9 Q. You can answer.
 10 A. I don't recall.
 11 Q. Okay. So then your opinions in this case
 12 would not be based upon experience with polypropylene
 13 mesh going back to 1999?
 14 MR. RUMANEK: Object to the form.
 15 THE WITNESS: I think that my experience
 16 with polypropylene mesh may be not only based on
 17 surgical experience. Certainly, there is
 18 literature that we have access to at that point,
 19 in addition to teaching in didactics that I
 20 would be exposed to in a residency program.
 21 BY MS. WHITE:
 22 Q. Okay. I don't understand your answer.
 23 A. So in a training program, there is
 24 exposure on a number of levels. There are senior
 25 residents who perform with supervision procedures,

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1 A. Right.
 2 Q. -- says that you began placing mesh ten
 3 years ago.
 4 A. That's right.
 5 Q. Okay. So can I rely upon what you put in
 6 your report or are you changing your testimony?
 7 MR. RUMANEK: Object to the form.
 8 THE WITNESS: So I think that ten years
 9 ago was 2006, 2007. And there are different
 10 levels of placing mesh. I would say that most
 11 of the things that I did as a resident in
 12 training were part of a learning process. Sure,
 13 I was involved, but I can't say that I would be
 14 the primary person responsible for placing mesh.
 15 BY MS. WHITE:
 16 Q. Okay. So you're changing your testimony?
 17 MR. RUMANEK: No, she's not changing it.
 18 Hold on just a sec. She's not changing her
 19 testimony.
 20 MS. WHITE: Okay. I'm going to ask her
 21 questions and give her plenty of opportunity to
 22 explain.
 23 MR. RUMANEK: And that was commentary.
 24 That wasn't a question.
 25

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1 BY MS. WHITE:
 2 Q. So to be clear, did you -- did you place
 3 polypropylene mesh -- surgically place polypropylene
 4 mesh for the treatment of stress urinary incontinence
 5 between June -- July 2000 and June 2001?
 6 A. I participated in surgeries where
 7 polypropylene mesh was placed.
 8 Q. Okay. And what types of surgeries did you
 9 participate in where polypropylene mesh was
 10 implanted? And, again, we're talking July 2000
 11 through June of 2001.
 12 A. So I would need to look at a case list
 13 from that point in time to tell you specific types of
 14 procedures that I participated in. Typical
 15 procedures that probably I participated in as a
 16 resident at that time would include suburethral
 17 slings and sacrocolpopexies.
 18 Q. Do you remember what manufacturers'
 19 products you were using July 2000, June 2001 for
 20 these surgeries?
 21 A. I couldn't be sure.
 22 Q. And you say you would need a case list to
 23 know for sure. What do you mean by that?
 24 A. So a case list would be a record of the
 25 patients that were involved in the care that I

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1 provided at the time.
 2 Q. All right. So let's do it this way. How
 3 many surgeries were you involved in where mesh was
 4 implanted for the treatment of stress urinary
 5 incontinence from July of 2000 through June of 2001?
 6 A. Anything that I would say would be a
 7 guess.
 8 Q. Okay. Well, you're the expert. And
 9 you've just testified that you were involved in these
 10 surgeries --
 11 A. Right.
 12 Q. -- and all of this is a basis for your
 13 opinion.
 14 A. Right.
 15 Q. So I'm asking you how many were you
 16 involved in from July of 2000 through June of 2001?
 17 MR. RUMANEK: To the best -- to best of
 18 your knowledge.
 19 THE WITNESS: Right. So what you're
 20 asking me is to tell you when I was a second
 21 year resident in training how many procedures
 22 that I did involved mesh. Is that right?
 23 BY MS. WHITE:
 24 Q. Yes, ma'am.
 25 A. Okay. I'm going to guess more than 20 and

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1 less than 40.
 2 Q. Okay. And were you the lead surgeon
 3 implanting the suburethral slings?
 4 A. As a second year resident in training, no,
 5 I was not.
 6 Q. How much are you being paid for serving as
 7 an expert for J & J?
 8 A. So the fees that I'm paid are determined
 9 by the University of North Carolina. And I believe
 10 they're about \$600 an hour.
 11 Q. Okay. So other than the suburethral
 12 slings, what was the other procedure that involved
 13 mesh?
 14 A. Sacrocolpopexy.
 15 Q. Okay. And what type of mesh product was
 16 used for that procedure?
 17 A. Likely at that point, a polypropylene mesh
 18 or a Mersilene mesh, which is polyester.
 19 Q. And how many of those procedures did you
 20 participate in from July of 2000 through June of
 21 2001?
 22 A. Probably -- probably five or less.
 23 Q. Who was the head of that residency
 24 program?
 25 A. The residency director was Callie

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1 Varaklis.
 2 Q. Can you spell that last name?
 3 A. I believe so. V-a-r-a-k-l-i-s.
 4 Q. Okay. So now let's go to Massachusetts
 5 General Hospital. Oh, wait, first. Let me talk to
 6 you a little bit about your experience with the
 7 polypropylene sling procedures. How many
 8 complications were involved in the more than 20 less
 9 than 40 surgeries you were involved in?
 10 MR. RUMANEK: Object to the form.
 11 THE WITNESS: So how many complications
 12 were involved within that year?
 13 BY MS. WHITE:
 14 Q. Yes, ma'am.
 15 A. I'll tell you a couple of things. One is
 16 that that one year in isolation was quite a long time
 17 ago so I'm not sure I could say reliably how many
 18 individual complications there were between 2000 and
 19 2001.
 20 Q. Yes, ma'am.
 21 A. Yeah, I'm not sure I could say. I -- it
 22 would be very unreliable for me to do that, and I
 23 probably need to go back and look through the medical
 24 records of that list of cases to understand what the
 25 complication number was.

14 (Pages 50 to 53)

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1 Q. But you're not going to be able to have
2 access to that case list.
3 A. That's right.
4 Q. Right? You're not going to be able to
5 access the case list to know if you did more than 20
6 or less than 40, right?
7 A. That's correct.
8 Q. Okay. So let's go to July of 2001, June
9 of 2003. While I guess this would have been your
10 second year of a residency in OB/GYN?
11 A. So there would be an intern year and then
12 the year at Boston Medical Center, which would be the
13 second year. So this would be the third year of my
14 OB/GYN training. And, yeah, I guess the second year
15 of residency.
16 Q. So were you involved in the surgical
17 placement of polypropylene meshes for the treatment
18 of stress urinary incontinence during this time so --
19 A. Yes.
20 Q. -- July of 2001 -- June of 2003?
21 A. Yes.
22 Q. And did you perform those surgeries on
23 your own?
24 A. No.
25 Q. Okay. And who was your residency director

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1 at Mass General?
2 A. There were two different residency
3 directors at Mass General. And I'm not going to be
4 able to pull either name. It will come to me during
5 the course of this time.
6 Q. You say it will come to you?
7 A. I'm sure it will, but it's not on the tip
8 of my tongue right now.
9 MR. RUMANEK: Whenever it pops into your
10 head, it will be in the middle of an answer of
11 some other question, I'm sure.
12 THE WITNESS: It may be in the middle of
13 an answer to some --
14 MR. RUMANEK: You can say -- you can
15 answer it.
16 BY MS. WHITE:
17 Q. That will be fine. How many surgeries
18 were you involved in during this two-year period
19 involving mesh if you know?
20 A. I don't know exactly. What I can tell you
21 is that the American College of Graduate Medical
22 Education carries a minimum number of surgeries that
23 you're required to participate in to complete a
24 residency, and those are published every year.
25 And I graduated from residency program.

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1 And so I know that with confidence I met those
2 numbers. I don't know what those specific numbers
3 were then and I don't know what they are now. So
4 I -- was it more than 20 and less than 40? Possibly.
5 Q. But it didn't require you to use mesh in
6 the surgical procedures?
7 A. No, it did not. It did not. But I did
8 participate in surgeries that used mesh. I don't --
9 I can't, again, give you a number.
10 Q. Okay. Have you -- going back to your
11 pathology, have you ever worked as a pathologist at
12 any medical facility other than the one year that you
13 did your internship at Mass General?
14 MR. RUMANEK: Object to form.
15 THE WITNESS: So I believe you asked me
16 previously, and I've not been employed since I
17 was an instructor -- not an instructor -- what
18 is it, clinical something in pathology at
19 Massachusetts General Hospital.
20 BY MS. WHITE:
21 Q. Okay. And during your anatomic pathology
22 internship year, did you gain any sort of knowledge
23 or study polypropylene mesh explanted from a woman
24 who had been surgically implanted with that material?
25 A. Not to my recollection, no.

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1 Q. Okay. So you complete the OB/GYN
2 residency program at Mass General?
3 A. That's right.
4 Q. Now, could you have sat for board
5 certification after you completed your residency
6 program?
7 A. Board certification in?
8 Q. In OB/GYN?
9 A. So board certification for OB/GYN comes in
10 two steps. There's a written examination that you
11 are permitted to sit for at the conclusion of the
12 residency program. And I did sit for that within a
13 couple of weeks of the completion of the residency
14 program and passed that exam.
15 And then following that, there is the
16 requirement of the collection of what's called a case
17 list which basically is a record of your own
18 experience within certain categories to sort of
19 establish examples of your own practice. And then
20 there's an oral board examination that occurs
21 generally some years later after the completion of
22 the residency program.
23 So that's how I did it. I sat for the
24 available part of the written examination, and then I
25 took an oral examination some years later.

15 (Pages 54 to 57)

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1 Q. Okay. I think I understand that. But you
2 could have taken the oral exam years earlier, right,
3 than what you did?
4 A. So -- let me just look at what year I took
5 that. There's a -- and it changes all the time
6 how -- what the length of time is between the time
7 you complete and the time you are allowed to complete
8 your case list, the time you take the written
9 examination and the time you're allowed to submit
10 your case list.
11 And it may have been -- and then also the
12 American College of Obstetrics and Gynecology for a
13 while did not allow individuals who participated in
14 fellowships to take the board examination while they
15 were in a fellowship. And then there are individual
16 fellowships that won't allow you to take the board
17 examination. So I would say that I took the board
18 examination as soon as I was able to do so.
19 Q. Okay. And are you board-certified in -- a
20 board-certified OB/GYN?
21 A. I am.
22 Q. Okay. All right. So after Mass General,
23 then you I guess applied for or compete for a
24 fellowship in female pelvic medicine and
25 reconstructive surgery at Mount Auburn?

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1 A. That's correct.
2 Q. And am I correct that that was something
3 you had to compete for?
4 A. Right. So there -- compete is a -- I
5 guess it's competition. I mean, the Mount Auburn
6 Hospital actually was not sure if they were going to
7 offer a fellowship at the time. And so once they
8 determined I think they were going to do that, I did
9 interview there, and they invited me to be there.
10 So I guess in a way that you would compete
11 for another job there's competition there. I don't
12 know who my competition was.
13 Q. Okay. Did you apply for other fellowships
14 in addition to the one at Mount Auburn?
15 A. I did, I did.
16 Q. And did you get into other fellowships?
17 MR. RUMANEK: Object to form.
18 THE WITNESS: So --
19 BY MS. WHITE:
20 Q. Fellowship programs?
21 A. Right. So the match system isn't such
22 that you get into -- it's not where you get -- you
23 don't get multiple job offers necessarily.
24 Q. Okay. So I guess what I'm asking you was
25 Mount Auburn Hospital, this fellowship program in

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1 female pelvic medicine and reconstructive surgery,
2 was this your first choice?
3 A. No, it wasn't my first choice.
4 Q. Okay. What was your first choice?
5 A. I think I wanted to go to Oregon.
6 Q. Okay. And why did you go want to go to
7 Oregon?
8 A. Adventure.
9 Q. Okay. So what stopped you from going to
10 Oregon?
11 A. I wasn't offered the position.
12 Q. Okay. And what position would that have
13 been?
14 A. It would have been a similar fellowship at
15 Oregon Health Sciences University.
16 Q. Okay. Do you remember any of the
17 manufacturers of the polypropylene mesh devices that
18 you surgically implanted to women during your time at
19 Mass General? I understand you weren't the lead
20 surgeon, but the cases you were involved in?
21 A. Not off the top of my head, no. I
22 think -- no, not off the top of my head.
23 Q. Okay. Do you mean that it might come to
24 you or --
25 A. No.

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1 Q. Or you just don't know?
2 A. I don't mean that it might come to me. I
3 think more I mean that I wasn't necessarily familiar
4 with the brands of anything at that point. I mean,
5 in a residency program, you know, those are things
6 that are brought to you, not that you select. And
7 their selection process is really dependent upon the
8 attending physician who does that selection.
9 Q. Okay. So during your residency program at
10 Mass General, July 2001 through June of 2003, what
11 were the surgical options for stress urinary
12 incontinence, back 2001-2003.
13 A. So do you mean the ones that were to my
14 knowledge available at Massachusetts General
15 Hospital?
16 Q. Yes, ma'am.
17 A. Okay. So I would say that the ones I
18 participated in were suburethral slings and
19 urethropexies, Burch urethropexy. Were you only --
20 I'm sorry -- specifically asking about urinary
21 incontinence or --
22 Q. Yes.
23 A. Yeah, I think -- and possibly a collagen
24 injection into the urethra. There may have been
25 other options that I wasn't exposed to that are

16 (Pages 58 to 61)

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1 available. It's hard for me to comment on the
2 expertise of physicians practicing there over and
3 above the things that I participated in, but that
4 doesn't mean they weren't there.

5 Q. Just so the record's clear, though, during
6 your time at Mass General, is that where you first
7 received training in the diagnosis and treatment of
8 stress urinary incontinence or did that start back at
9 the Medical College of Ohio?

10 A. Right. I think that probably started back
11 at the Medical College of Ohio. Every year of
12 residency has sort of a different focus. Doesn't
13 mean that you're not exposed to the other things, but
14 the first year of residency, you might pick up some
15 things about urinary incontinence, but it might more
16 uniquely pertain to patients who are pregnant.

17 Q. Okay. All right. So you're first
18 introduced to diagnosis and treatment of stress
19 urinary incontinence during your -- at Medical
20 College of Ohio?

21 A. And actually, I mean, the truth is that
22 within the context of my residency training, that
23 would be my first exposure. But I think, you know,
24 medical school certainly provides exposure to that as
25 well.

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1 Q. Okay. All right. But during that first
2 year of the internship, that first year at Medical
3 College of Ohio, is that -- was that the first time
4 that you -- you were active in the diagnosis and
5 treatment of a patient who had stress urinary
6 incontinence?

7 A. I -- possibly. I mean, I think as a
8 medical student, I participated in both urology and
9 OB/GYN courses. So as a medical student, to the
10 extent that medical students are, I would have been
11 involved in the exposure to evaluation and treatment
12 of those patients.

13 Q. All right. Your fellowship began in July
14 of 2003. Who -- who was the director of this
15 fellowship program?

16 A. Peter Rosenblatt.

17 MR. RUMANNEK: Kim, we have been going
18 about an hour. Whenever it's a good time for a
19 break.

20 MS. WHITE: We can take a break now.

21 (A recess transpired from 11:48 a.m.
22 until 11:55 a.m.)

23 BY MS. WHITE:

24 Q. All right. So let's talk about your
25 fellowship. I think you just testified that it's

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1 Peter Rosenblatt who was the fellowship director?

2 A. That's correct.

3 Q. Okay. And tell me a little bit about the
4 difference between a fellowship and a residency
5 program.

6 A. So I think the difference between the
7 programs really has to do with what the focus is.
8 Obstetrics and gynecology is a discipline, and there
9 is a certain sort of criteria for training that is
10 determined by the American College of Graduate
11 Medical Education and also by the American Board of
12 Obstetrics and Gynecology. And so training programs
13 are designed to fulfill those requirements with
14 regard to the topics included in obstetrics and
15 gynecology. Female pelvic medicine and
16 reconstructive surgery is a smaller area within the
17 field of obstetrics and gynecology.

18 And so fellowship training there is
19 designed to meet those standards or specific
20 educational objectives and to allow someone to
21 fulfill all the requirements for board certification
22 for those things. The focus is narrower generally in
23 a fellowship and there's some effort to do a little
24 bit of a deeper dive into some, in this case,
25 specific surgical techniques and maybe some more --

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1 more specific and definitive knowledge on specific
2 areas.

3 A general obstetric --
4 obstetrician/gynecologist might know some things
5 about urinary incontinence, for example. A female
6 pelvic medicine and reconstructive surgeon would be
7 expected to know more, again have more experience in
8 surgery based on their fellowship training.

9 Q. Okay. During your fellowship at Mount
10 Auburn with Dr. Rosenblatt, I guess he was your boss,
11 right?

12 A. He was a fellowship director, correct.

13 Q. Yeah. Did you diagnose and treat stress
14 urinary incontinence?

15 A. With his oversight, yes.

16 Q. Okay. Yeah. So let's talk about that.
17 Did you have your own patients during this fellowship
18 program?

19 A. So not at the beginning, but as things
20 developed, yes. There are different criteria for
21 oversight that are part of a training program.

22 For example, for someone who has limited
23 experience there might be direct oversight. The
24 patient that I see I see, and the attending physician
25 is there watching every word I say, correcting every

17 (Pages 62 to 65)

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1 word I say, so forth. As you grow in your
 2 experience, that responsibility changes from being,
 3 you know, direct oversight to indirect oversight and
 4 then to consultation as you sort of mature through
 5 the training process.
 6 Q. Okay. Well, let's break it down by year.
 7 Year July 2003 to July 2004, did you see -- did you
 8 have your own patients that you diagnosed and treated
 9 for stress urinary incontinence?
 10 A. I don't believe I did.
 11 Q. Okay. So July 2004 to July 2005, did you
 12 have your own patients that you diagnosed and treated
 13 for stress urinary incontinence?
 14 A. So I think the answer there is possibly,
 15 but let me just offer a caveat here that when you say
 16 "my own," I think there are sort of degrees of that.
 17 One would be in a sense of billing, right, did I sign
 18 the billing form so that I personally was sort of
 19 reimbursed and held accountable for that or did Peter
 20 Rosenblatt or one of the other doctors there do that.
 21 And those specific things, which would be one of the
 22 criteria in training that I would think of as my own,
 23 those things are evolving as well.
 24 For example, now, in a fellowship training
 25 program, at no time during the three years of

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1 fellowship is a fellow ever independently billing.
 2 At the time that I was a fellow then, the rules were
 3 a little bit different. But the oversight was not
 4 dependent upon those billing rules.
 5 So, you know, as I made my way through my
 6 second year, I think there were more situations in
 7 which I behaved not with direct oversight but with
 8 indirect oversight. And a fellowship is really
 9 defined by the oversight. So the second year has
 10 less oversight than the first year.
 11 Q. Okay. That makes sense. And then the
 12 third year and what I'm really talking about is where
 13 you are the physician that's along with the patient
 14 making the decisions and directing the care. Okay?
 15 So by year three, did you have your own
 16 patients where you're directing the care?
 17 A. So I saw patients separate from Peter
 18 Rosenblatt. But I never operated independently to my
 19 recollection on patients who had urinary incontinence
 20 or pelvic organ prolapse. And so all of the patients
 21 would still cycle through the oversight of Peter
 22 Rosenblatt or one of the other urogynecologists
 23 there.
 24 Q. Did you have a good relationship with
 25 Dr. Rosenblatt?

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1 A. I would say yes.
 2 Q. Okay. And are you still in touch with him
 3 today?
 4 A. Sure.
 5 Q. Okay. Are you all friends?
 6 A. We're colleagues. I mean, yes, I think
 7 we're friends.
 8 Q. Okay. And I think you talk in your
 9 report, he's -- he's someone that you -- is it fair
 10 to say he's someone you look up to?
 11 A. I regard him highly, yes.
 12 Q. Okay. And has he been a mentor of yours
 13 in the area of female reconstructive surgery?
 14 A. Absolutely. I mean, I think that's what
 15 it means to have a relationship as a trainer and a
 16 trainee. It certainly is true that the longer you go
 17 after you've been away from your training, the more
 18 you develop your own independent style. But there
 19 are probably still things I would talk with him about
 20 if they came up.
 21 Q. And, well, do you view him as someone who
 22 has certainly helped you -- helped you advance your
 23 career?
 24 MR. RUMANEK: Object to the form.
 25 THE WITNESS: So yes and no. I mean, I

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1 think he has certainly supported me and, when
 2 called upon, given me advice and opportunity.
 3 On the other hand, I mean, quite frankly, I've
 4 worked hard to advance my own career. And --
 5 you know, I think that's -- that's the way --
 6 the way it works.
 7 BY MS. WHITE:
 8 Q. Well, has he ever served as like a
 9 reference for you in a professional capacity?
 10 A. I think actually as part of the fellowship
 11 director, he has to.
 12 Q. Is that a yes?
 13 A. Yes. That's a yes.
 14 Q. And during this fellowship, and correct me
 15 if I'm wrong, is -- is this the first time that you
 16 utilized the Ethicon TVT product? And we agreed that
 17 TVT means TVT Retropubic.
 18 A. To be honest, as we said before, I wasn't
 19 100 percent aware of the brands of the products that
 20 were used at Massachusetts General Hospital or at
 21 Brigham and Women's Hospital where I also operated,
 22 and so I couldn't say absolutely. I know that we did
 23 use Ethicon products then. But I don't -- I can't
 24 say for sure that I didn't use them previously.
 25 Q. Well, did you have contact or

18 (Pages 66 to 69)

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1 communications with Ethicon sales reps during your
2 fellowship program?
3 A. So within the context of my fellowship
4 program, there was certainly contact on the part of
5 the practice. Peter Rosenblatt, other physicians,
6 attendings in the practice with Ethicon. And I was
7 associated with them, whether I was assisting in
8 surgery, conversing with the reps in those contexts,
9 possibly I did.
10 Q. Let's do it this way.
11 A. Okay.
12 Q. Because you're serving as an expert --
13 A. Right.
14 Q. -- testifying about the safety and
15 efficacy of TVT and TVT-O on behalf of Ethicon; is
16 that right?
17 A. That's correct.
18 Q. Okay. So when is the first time that you
19 recall using -- knowing that you were using a TVT-O
20 product for the surgical treatment of stress urinary
21 incontinence?
22 A. So I'm not sure I could put an actual date
23 on it, but that was definitely within my fellowship.
24 In other words, I couldn't say it was this date at
25 this time. I -- there's just no way I can do that.

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1 It's been too long and it's not something that I
2 would keep track of in my head.
3 Q. So you're testifying that you don't know
4 when you first used the TVT product?
5 MR. RUMANEK: Object to the form.
6 Mischaracterizes her testimony.
7 BY MS. WHITE:
8 Q. Please clear it up for me.
9 A. I am testifying that during the course of
10 my fellowship, I did use Ethicon products. I am not
11 sure that I can give you a specific date.
12 Q. I'm not asking for a specific date.
13 MR. RUMANEK: But she's answered
14 generally.
15 BY MS. WHITE:
16 Q. Okay. Did you use the TVT product for the
17 surgical treatment of stress urinary incontinence
18 during your fellowship program?
19 A. Yes.
20 Q. Did you use the TVT-O product during your
21 fellowship?
22 A. Yes.
23 Q. Okay. And how did you become familiar or
24 introduced to the TVT medical device?
25 A. Familiar in the sense of what?

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1 Q. Well, how did you learn about it? Like
2 was it something that Mount Auburn stocked and you
3 were forced to use it? How do you recall becoming
4 familiar with the product for the first time?
5 A. So there are probably a number of ways
6 that I became familiar with the product. One would
7 be that at the time, this is when slings, Ethicon and
8 others, were becoming more commonly used. And so
9 there was a buzz, right? Whether that's with my
10 fellow trainees or with attendings, both within my
11 fellowship or outside, would talk about them. They
12 were -- there was information present in didactic
13 sessions.
14 We did use the products and we had
15 representatives provide teaching and those sorts of
16 educational opportunities during that time. There
17 were presentations at national conferences and
18 probably advertising booths at national conferences,
19 although I don't recall any of those specifically. I
20 don't generally spend a lot of time in those places.
21 But those are all opportunities for me to become
22 aware of Ethicon and Ethicon products.
23 I think Ethicon is a leader in these types
24 of products. So certainly they were one of the most
25 common that we were exposed to during that time --

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1 that I was exposed to during that time.
2 Q. Do you know whether or not Dr. Rosenblatt
3 was a paid consultant for Ethicon during the years
4 you were in the fellowship program, July 2003 to June
5 of 2006?
6 A. I've never been privy to Dr. Rosenblatt's
7 financial arrangements.
8 Q. Is that a yes or a no?
9 A. No, I don't know. I don't know.
10 Q. Would -- is that something you would have
11 wanted to know back July 2003-2006 whether or not
12 your fellowship director had a business relationship
13 with Ethicon?
14 MR. RUMANEK: Object to form.
15 THE WITNESS: What I would say that I did
16 know about Peter Rosenblatt was that he is a
17 businessman in addition to an excellent
18 physician and an excellent teacher, and I knew
19 that he had financial arrangements, as I assume
20 that most people who did teaching for companies
21 that did these mesh products have financial
22 arrangements.
23 I couldn't tell you the nature of the
24 financial arrangement, with whom he had them or how
25 much money he made. But I assumed that there were

19 (Pages 70 to 73)

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<p style="text-align: right;">Page 74</p> <p>1 some of those there, but that's an assumption on my 2 part, not based on any specific information that 3 Dr. Rosenblatt gave me. And so would it have made a 4 difference that he had a specific arrangement with 5 Ethicon? No. 6 Q. Do you think having a paid relationship 7 with a pharmaceutical company or a medical device 8 company makes a physician biased for or against a 9 product? 10 MR. RUMANEK: Object to the form. 11 THE WITNESS: So I think to a great 12 degree, it's important for physicians to 13 interact with pharmaceutical companies and that 14 that doesn't necessarily make someone a biased 15 person. I think that the question of bias is 16 really a hard one to figure out specifically and 17 there are many different things that go into it. 18 Bias may be present because someone really 19 thinks a good -- a procedure is good. 20 And then there's bias -- you know, whether 21 that's because there's been financial incentive, 22 that's another question. That's certainly 23 another kind of bias, but there are many kinds 24 of bias. 25</p>	<p style="text-align: right;">Page 76</p> <p>1 had nothing to do with your decision to use TVT or 2 TVT-O during July of 2003 through June of 2006 for 3 the treatment of stress urinary incontinence? 4 MR. RUMANEK: Object to the form. 5 She's -- her testimony is what her testimony is. 6 If you want to ask her a question. Her 7 testimony speaks for itself. 8 BY MS. WHITE: 9 Q. So let me ask you that again because I'm 10 not sure I got your answer. I'm really not, Doctor. 11 And I apologize. 12 Did Dr. Rosenblatt -- 13 MR. RUMANEK: Hold on. Why don't you -- 14 the question -- reread the answer. 15 MS. WHITE: I'm going to ask a new 16 question. 17 MR. RUMANEK: Okay. 18 MS. WHITE: This is my deposition. I'm 19 certainly allowed to do that. 20 BY MS. WHITE: 21 Q. So did Dr. Rosenblatt have anything to do 22 with your decision to utilize TVT or TVT-O for the 23 surgical treatment of stress urinary incontinence 24 between July of 2003 and June of 2006? 25 MR. RUMANEK: Object to the form.</p>
<p style="text-align: right;">Page 75</p> <p>1 BY MS. WHITE: 2 Q. Do you think that -- or let me ask you 3 this: Did Dr. Rosenblatt's endorsement of TVT and 4 TVT-O during your fellowship impact your decision to 5 utilize TVT and/or TVT-O as a form of treatment for 6 stress urinary incontinence? 7 MR. RUMANEK: Object to form. 8 THE WITNESS: So within the context of my 9 fellowship, Ethicon was certainly not the only 10 set of products that I was exposed to. In fact, 11 I probably couldn't name all of the types of 12 products that I was exposed to during my 13 fellowship even with regard to retropubic 14 slings. So I would have to say no, that's not 15 probably where or why I decided to use Ethicon 16 products. 17 BY MS. WHITE: 18 Q. Okay. So your testimony is that 19 Dr. Rosenblatt had nothing to do with your decision 20 to utilize TVT or TVT-O? 21 A. That was not my testimony. 22 MR. RUMANEK: Hold on. Just let me object 23 to the form. Mischaracterizes her testimony. 24 BY MS. WHITE: 25 Q. So your testimony is that Dr. Rosenblatt</p>	<p style="text-align: right;">Page 77</p> <p>1 THE WITNESS: Dr. Rosenblatt exposed me to 2 a broad variety of brands and options for the 3 treatment of stress urinary incontinence. And 4 as my teacher, certainly influenced both my 5 expertise and my selection of products in that 6 way. 7 BY MS. WHITE: 8 Q. Do you know whether or not Dr. Rosenblatt 9 has ever received education grants from Ethicon? 10 A. I don't know. 11 Q. Do you know whether or not Dr. Rosenblatt 12 has ever received research funding from Ethicon? 13 A. I don't know. 14 Q. If you were aware that during your years 15 that you were in the fellowship program that he was 16 receiving hundreds of thousands of dollars from 17 Ethicon, would that have influenced your perspective 18 of TVT, TVT-O or other Ethicon products for the use 19 of stress urinary incontinence? 20 MR. RUMANEK: Object to the form. 21 THE WITNESS: My opinion of Dr. Rosenblatt 22 is a broad-based opinion based on my 23 interpersonal relationship with him. So no, I 24 don't -- I don't think that information would 25 have added or detracted anything from what I</p>

20 (Pages 74 to 77)

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1 already know of Dr. Rosenblatt.
 2 BY MS. WHITE:
 3 Q. I didn't ask you about Dr. Rosenblatt. I
 4 said, if you would have been aware during your
 5 fellowship years that he was receiving hundreds of
 6 thousands of dollars as a paid consultant for
 7 Ethicon, would that have influenced whether or not
 8 you used TVT and TVT-O for the treatment of stress
 9 urinary incontinence in your patients?
 10 MR. RUMANEK: Object to the form. Asked
 11 and answered.
 12 THE WITNESS: My decision to use TVT and
 13 TVT-O in my patients was based on my
 14 understanding of the literature and my
 15 experience with the product as I had in
 16 residency, so, no, it wouldn't have.
 17 BY MS. WHITE:
 18 Q. So according to your expert report, during
 19 your fellowship, you yourself attended training that
 20 was put on by GyneCare and Ethicon?
 21 A. Yes.
 22 Q. So that's correct, you -- while you were a
 23 fellow, you attended GyneCare Ethicon training?
 24 A. That's correct.
 25 Q. Okay. And did you attend that training to

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1 learn how to surgically implant TVT?
 2 A. No, I didn't.
 3 Q. Okay. So during your fellowship years,
 4 when you attended these GyneCare Ethicon professional
 5 education activities, what were you learning how to
 6 do? What product was that for?
 7 A. So to my recollection, there were a number
 8 of reasons that I might have attended an Ethicon
 9 training course. Part of that was that I was a
 10 fellow of Peter Rosenblatt and he was involved in
 11 those trainings and so I accompanied him or went
 12 along with him.
 13 Some of those things were opportunities to
 14 further the technique that I was already learning in
 15 the course of my training, whether that was a
 16 retropubic sling or a transobturator sling, which is
 17 I think the thing I most often remember.
 18 I was able to do that on cadavers which is
 19 a completely different experience than performing it
 20 on a patient. And so while I did not learn or
 21 perfect my technique, I think understanding anatomy
 22 is a lot wiser to do on a cadaver specimen than it is
 23 on a sleeping patient. So those were opportunities
 24 to -- for further education. They weren't what
 25 helped me learn to do the procedures. It's also

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1 possible that I attended a cadaver lab as --
 2 regarding a Prolift or one of the other mesh
 3 implantation devices.
 4 Q. And you were a big Prolift user, right?
 5 MR. RUMANEK: Object to the form.
 6 THE WITNESS: I'm not sure what "big"
 7 means, but no, I wouldn't say that I was a big
 8 Prolift user.
 9 BY MS. WHITE:
 10 Q. When was the last time that you surgically
 11 implanted a Prolift device in a patient?
 12 A. Wow. So -- I probably did a few of them
 13 after I began my position at Massachusetts General
 14 Hospital which would have been in 2006, I believe, so
 15 probably over the course of a year or two at Mass
 16 General, I may have done five to ten of them.
 17 Q. Okay.
 18 A. Maybe -- probably more on the order of
 19 five.
 20 Q. All right. Let's go back to TVT. Please
 21 tell the jury when you were first trained to
 22 surgically implant TVT in a patient for stress
 23 urinary incontinence. When did you first get trained
 24 to do that?
 25 A. So I think that training is something that

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1 happens as a gradual process. So first trained is
 2 probably -- that makes it sound as though or I would
 3 assume that something where you have this experience
 4 and then you go do it, and that's never the case in
 5 surgical training. Surgical training is a long
 6 process, happening over the course of years.
 7 And so I would say that I was first
 8 trained to do such a procedure during my fellowship,
 9 beginning from the first time Ethicon products were
 10 used probably during the first year of my fellowship
 11 and until the conclusion of my fellowship. So over
 12 three years I was first trained to do this procedure.
 13 Q. Okay. When's the first time, Doctor, you
 14 recall, using the TVT device.
 15 A. I don't think I have a first recollection.
 16 Q. Okay. Fair enough. And so you're going
 17 to stick to that. You don't recall when you first
 18 remember using the TVT device?
 19 MR. RUMANEK: Object to the form. Asked
 20 and answered.
 21 THE WITNESS: I don't think I could
 22 identify a time when I wasn't. You know, it's
 23 like asking me when I first did a cesarean
 24 section. I've done them through my training. I
 25 don't remember the first time, but I do know

21 (Pages 78 to 81)

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1 that over the course of several years, I learned
 2 to do it.
 3 BY MS. WHITE:
 4 Q. Okay. Who trained you to surgically
 5 implant the TVT device in a woman for the treatment
 6 of stress urinary incontinence?
 7 MR. RUMANEK: Object to the form.
 8 THE WITNESS: So I've had many educators,
 9 trainers, teachers over the years. Peter
 10 Rosenblatt was certainly a great part of that.
 11 Tony DiScuillo, who was another physician at my
 12 fellowship, was certainly a part of that. May
 13 Wakamatsu, with whom I trained at Massachusetts
 14 General Hospital, was a part of that. Joan
 15 Bengtson, who was at Brigham and Women's
 16 Hospital, was certainly a part of that.
 17 BY MS. WHITE:
 18 Q. Is it fair to say, and I think this is
 19 what you've testified to, you first received training
 20 on the TVT during those fellowship years?
 21 MR. RUMANEK: Object to the form.
 22 THE WITNESS: Yes, that's fair to say.
 23 BY MS. WHITE:
 24 Q. Okay. How about TVT-O? Okay? When were
 25 you first trained to use the TVT-O device?

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1 A. During my fellowship.
 2 Q. Okay. Did you receive any training on the
 3 surgical implantation of the TVT device from Ethicon
 4 directly?
 5 A. Not to my recollection. I believe that --
 6 and I guess it really depends on what you mean by
 7 "directly." I spent most of my time as a surgical
 8 trainee in the operating room -- all my time as a
 9 surgical trainee in the operating room with other
 10 attending physicians who were primarily responsible
 11 for my training.
 12 You know, Peter Rosenblatt worked with
 13 Ethicon. And so as he -- as much as he taught me to
 14 do that, you know, I've had some exposure to Ethicon
 15 in the process. But I would never say that I was
 16 directly trained to do the TVT by Ethicon.
 17 Q. Okay.
 18 A. TVT-O, I mean.
 19 Q. TVT or TVT-O?
 20 A. TVT-O is what you asked me about, I think.
 21 Q. No, I asked you about TVT, but let's talk
 22 about TVT-O.
 23 MR. RUMANEK: I think she said both.
 24 THE WITNESS: Right. I said both.
 25

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1 BY MS. WHITE:
 2 Q. Okay. So it's your testimony that you did
 3 not receive direct training from Ethicon for the
 4 surgical implantation of TVT or TVT-O?
 5 MR. RUMANEK: Object to the form. Asked
 6 and answered.
 7 BY MS. WHITE:
 8 Q. I just -- I'm trying to pin down your
 9 testimony. It's usually not this hard, but I'm
 10 sorry. Just did you receive direct training from
 11 Ethicon?
 12 MR. RUMANEK: So she's already -- she
 13 answered that question. You can answer it
 14 again.
 15 THE WITNESS: One of the reasons that this
 16 may be difficult is that I have come to use both
 17 TVT and TVT-O through the course of my residency
 18 and then fellowship training. So part of that
 19 is not any different from learning any other
 20 surgical procedure that does or does not involve
 21 a medical device. So these are very gradual
 22 processes over a long period of time.
 23 And it's not, as I think back over my
 24 experience in learning to do these procedures,
 25 the question of whether I was trained to do this

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1 by Ethicon is almost a moot point. I was
 2 trained over many years to do the procedure by a
 3 broad variety of providers and trainers. And
 4 it's a very difficult for me to say, Ethicon
 5 trained me to do that because that just wouldn't
 6 be accurate.
 7 BY MS. WHITE:
 8 Q. After you left your fellowship and went on
 9 to work at Mass General?
 10 A. That's right.
 11 Q. Okay. Did you begin to regularly use TVT
 12 and TVT-O to surgically treat stress urinary
 13 incontinence in your patients?
 14 A. Yes, I have regularly used TVT and TVT-O.
 15 Q. Okay. So in the course of all these years
 16 of training through Rosenblatt, your fellowship, the
 17 other folks you mentioned who are also mentioned in
 18 your expert report, did you as part of your training
 19 rely upon the instructions for use, the IFU?
 20 A. In what manner?
 21 Q. Is that something that also was a basis or
 22 a knowledge base for you in terms of using TVT or
 23 TVT-O in a patient? Is that something you relied
 24 upon and turned to?
 25 A. Not particularly, no.

22 (Pages 82 to 85)

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1 Q. Okay. What do you think is the purpose of
2 the IFU?
3 A. So I believe that the IFU has some
4 purposes. One is to fulfill government requirements
5 for the production of such with the creation of a
6 medical device. And then I think in the case of this
7 particular type of IFU, it's targeted at physicians
8 who are experienced in the treatment of stress
9 urinary incontinence as a discussion and a
10 presentation of the generals of the procedure.
11 Q. Do you think it's important that the IFU
12 is accurate in the information that's contained
13 therein?
14 MR. RUMANNEK: Object to the form.
15 THE WITNESS: I think that it is important
16 that the IFU offers accurate information.
17 BY MS. WHITE:
18 Q. Okay. Let me ask you this: Are you
19 familiar with a doctor by the name of Vince Lucente?
20 A. I know a Vince Lucente, yes.
21 Q. Are you friends with him?
22 A. Absolutely not. I've met him on maybe one
23 occasion.
24 Q. Okay. Have you ever attended any of his
25 training sessions for any Ethicon product?

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1 A. I'm not sure whether it was his training
2 session. It's possible that he was present at a
3 training session that I attended.
4 Q. But as you sit here today, do you have a
5 recollection of any specific training session on any
6 specific product that you attended with Vince
7 Lucente?
8 A. No, I couldn't say specifically. I
9 believe he may have been present at one of the
10 Prolift -- or at the Prolift session I think I went
11 to. But I am -- I couldn't tell you where it was or
12 when it was or any more specifics about that.
13 Q. So you do think that you went to a
14 company-sponsored training program for Prolift?
15 A. I believe so.
16 Q. Okay. So let's go back a little bit.
17 During your fellowship years, what were the surgical
18 treatments for stress urinary incontinence involved
19 in your practice?
20 A. Involved in my training?
21 Q. Involved in your training. But you're a
22 licensed medical doctor during your fellowship years,
23 right?
24 A. That's correct.
25 Q. So 2003 to 2006, you know, what were the

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1 surgical procedures that you offered patients for
2 stress urinary incontinence?
3 A. So from 2003 to 2006, the surgical
4 procedures that I offered patients were almost
5 exclusively guided by the advice and input of the
6 physicians that are overseeing my training. So
7 within that context, there were TVT and TVT-O were
8 the equivalent in some other brand so retropubic and
9 transobturator slings.
10 There were laparoscopic urethropexies,
11 primarily the Burch procedure. There were
12 pubovaginal slings, typically composed of rectus
13 fascia. And there were abdominal or open Burch
14 procedures.
15 Q. Okay.
16 A. And also periurethral bulking procedures
17 so Coaptite. Occasionally a collagen injection. And
18 I think that's all.
19 Q. Okay. So what were some of the other
20 sling products that you used during your fellowship,
21 2003 to 2006, for -- other than Ethicon products?
22 A. Hmm. Probably a Bard procedure. I'm not
23 going to remember names. I'm just not good with
24 them, and they never were important to me.
25 Q. What about the ProteGen sling? Did you

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1 ever use that?
2 A. Maybe. The name is familiar to me, but I
3 don't know if that's because I heard it in the
4 literature or in the conversation or because we
5 actually did one.
6 Q. Are you aware of any complications with
7 the use of the ProteGen sling?
8 MR. RUMANNEK: Object to the form.
9 THE WITNESS: Not off the top of my head.
10 BY MS. WHITE:
11 Q. Were you aware that it was one of the
12 first polypropylene mid-urethral slings pulled off
13 the market?
14 MR. RUMANNEK: Object to the form.
15 THE WITNESS: No.
16 BY MS. WHITE:
17 Q. So other than your reliance upon your
18 fellowship directors, how did you make the decision
19 after you left the fellowship program to start using
20 TVT for the treatment of stress urinary incontinence?
21 A. So I think it's multifactorial decision.
22 One of the things that is true is that in the greater
23 body of literature, even at that time, TVT was one of
24 the primarily researched slings. And that body of
25 research has almost certainly grown since that time.

23 (Pages 86 to 89)

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1 But I felt that it would be prudent to choose a sling
2 about which there is a significant body of literature
3 supporting its use.

4 In addition to that, at institutions like
5 Mass General, the negotiation and understanding of
6 what's used is part of deciding with your colleagues
7 and partners who also use that even across hospitals
8 which brands will be used and what we kept on the
9 shelf. So I was actually happy to note that those
10 were the ones that were there.

11 Q. You were happy to note that?

12 A. I was.

13 Q. And why is that?

14 A. Because, again, my exposure to the
15 literature and my experience and training led me to
16 understand that I felt comfortable performing
17 retropubic slings using those -- and transobturator
18 slings using those techniques, and so I was happy to
19 continue to use those things that I thought were best
20 used in my hands.

21 Q. Well, back in 2006, after you're done
22 training, you're now at Mass General, what literature
23 specifically were you relying upon that gave you that
24 level of comfort, that made you happy that this was
25 stocked on the shelves?

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1 MR. RUMANNEK: Object to form.

2 THE WITNESS: So I think it would be hard
3 for me to point to one specific study. I think
4 there, even at that time, were multiple case
5 series dating back many years to follow along
6 patients with retropubic slings, and I think the
7 mass -- the total mass of the literature at that
8 point would probably be part of that.

9 I mean, we could do a Medline search that
10 ended at 2006 and I can tell you to some degree
11 which ones I looked at if you would like, but I
12 think it would be unfortunate for me to choose
13 only one because there are many.

14 BY MS. WHITE:

15 Q. Well, I've only got a few hours with you
16 here today, and you're getting paid \$600 an hour as
17 an expert for Ethicon as a general urogyn expert for
18 TVT and TVT-O. So can you recall what literature
19 specifically, if there's one that stands out to you
20 back in 2006, that gave you the comfort level to use
21 TVT in your patient population?

22 MR. RUMANNEK: I'm going to object to the
23 form of the question. Asked and answered and to
24 the commentary and argument with the witness.
25

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1 BY MS. WHITE:

2 Q. You can answer, Doctor.

3 A. Okay. I think it would be very difficult
4 for me to choose one.

5 Q. Okay.

6 A. One of the things about the TVT is that
7 there's so much literature here. It's really -- I
8 think I would be mistaken to choose any one.

9 Q. Okay. What about TVT-O? What if any
10 specific article, clinical trial, literature, level I
11 evidence, did you rely upon to -- that gave you that
12 comfort level to start using TVT-O in your patient
13 population?

14 MR. RUMANNEK: Are you asking just about
15 level I or the other things?

16 BY MS. WHITE:

17 Q. Just, yeah, any piece of literature. I
18 assumed it would be level I, but maybe it's not.
19 What -- what other than your training with Rosenblatt
20 did you rely upon, okay, to start using TVT-O in your
21 patient population?

22 MR. RUMANNEK: Object to the form.

23 THE WITNESS: So I think there a lot of
24 things that lead you to start using something.
25 And I'll also observe that one of the challenges

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1 with new technology is trying to figure out
2 where and how to utilize it in your practice or
3 if. And so I would say that TVT-O did and does
4 occupy a specific group of patients for my
5 practice. So part of that decision process was
6 reviewing again the accumulating literature at
7 that time and speaking with experts, be that the
8 people who trained me or other people that I met
9 at conferences, and looking at various abstracts
10 and other things that were presented. That was
11 pretty early on in the use of TVT-O, in terms of
12 its introduction and presence in the United
13 States and so forth.

14 And so I have to say that I think that my
15 use of it was probably very limited at the
16 beginning and has grown within a certain niche
17 over time, but I can't point to a specific
18 article.

19 BY MS. WHITE:

20 Q. During your fellowship, do you recall
21 representatives from Ethicon being in the OR when
22 either you or Dr. Rosenblatt surgically implanted TVT
23 or TVT-O in patients?

24 A. So first of all, I would say that it's
25 probably true that as a trainee, I was never in the

24 (Pages 90 to 93)

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1 OR without either Dr. Rosenblatt or another one of
2 the attending physicians overseeing my training.

3 And secondly, I think that it's certainly
4 possible that there was an Ethicon representative
5 present in the OR at certain points. But I don't
6 recall any specific individuals and I couldn't
7 actually say that the representative was actually
8 from Ethicon. It's even -- it's definitely possible
9 that there was someone there.

10 Q. You just don't recall?

11 A. I really don't. I mean, it's not
12 really -- they don't play a major factor in the
13 production of the surgical procedure. And they're
14 certainly not part of the doing of the procedure.

15 Q. Why are they there?

16 MR. RUMANNEK: Object to the form.

17 THE WITNESS: Why are they there? You
18 know, I think that, in part, as the person
19 providing either new technology or some form of
20 device, I think they want to ensure that
21 procedures are done without question. If
22 there's any question about the device, about the
23 packaging, about the thing that they're
24 providing, I think they feel responsible to see
25 it through.

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1 BY MS. WHITE:

2 Q. Do you get patient permission before you
3 permit a pharmaceutical rep to be in the OR?

4 MR. RUMANNEK: Object to form.

5 BY MS. WHITE:

6 Q. During the patient procedure?

7 A. I would.

8 Q. Since leaving your fellowship program,
9 have you implanted women with any Ethicon device
10 where an Ethicon representative was in the OR with
11 you?

12 A. I think the answer to that is probably no.
13 But I wouldn't -- I couldn't say 100 percent, no.

14 Q. So I want to talk to you a little bit
15 about your J & J relationship. After you got trained
16 on the TVT and TVT-O, and I know your testimony is
17 that was primarily during your fellowship and
18 Dr. Rosenblatt, did you serve as a preceptor or
19 proctor for J & J?

20 A. I don't think so.

21 Q. Okay. Have you ever been paid as a
22 preceptor or proctor for J & J?

23 A. I don't think so. But I would have to say
24 that it's possible that I was paid during my
25 fellowship for some of the things that I may have

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1 done. I don't think -- I mean, certainly since I
2 finished, I have no recollection of doing that.

3 Q. What are some of the things you may have
4 done during your fellowship that you would have been
5 paid by J & J or Ethicon for?

6 A. An example of that might have been, and
7 I'm not sure -- I'm thinking of this, and I'm not
8 sure it was specifically J & J, which is why I'm not
9 able to say this absolutely which company this was
10 for. But, for example, in a cadaver lab, when others
11 are being trained in what to do, sometimes there are
12 retractions and those sorts of things, so as a
13 fellow, I would be there and perhaps be compensated
14 to be there to retract or to hold or those sorts of
15 things during the process and maybe to help with
16 sometimes the passage of needles and those sorts of
17 things for new trainees.

18 Q. All right. Other than possibly during
19 your fellowship and serving as an expert, general
20 expert in the mesh litigation and the case specific
21 expert role you're playing, have you previously
22 worked for Ethicon or J & J as a paid consultant?

23 A. No.

24 Q. Have you received education grants from
25 J & J or Ethicon?

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1 A. Not at Mass General, no, and not here as
2 far as I know, no.

3 Q. Okay. At Mount Auburn?

4 A. To my knowledge, there was not an
5 education grant that was specifically from Ethicon.
6 But I will say that as a fellow, the recipient of
7 that would have been the fellowship, not me. Unless
8 there was travel associated, which might have been
9 for one of these kinds of conferences.

10 Q. Okay. How about any sort of research
11 funding agreement, have you ever entered into one
12 with J & J or Ethicon?

13 A. No, I haven't.

14 Q. Do you know whether Ethicon restricted the
15 sale of its TVT or TVT-O device solely to physicians
16 who had undergone an Ethicon training course?

17 MR. RUMANNEK: Object to the form.

18 THE WITNESS: No, I don't know.

19 BY MS. WHITE:

20 Q. In your opinion, should only physicians
21 who have undergone Ethicon training be permitted to
22 surgically implant the TVT?

23 A. No, I don't think Ethicon training has
24 anything to do with being adequately trained to
25 surgically implant the TVT.

25 (Pages 94 to 97)

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<p style="text-align: right;">Page 98</p> <p>1 Q. Then why do you think Ethicon has these 2 training sessions? What's their purpose? 3 MR. RUMANEK: Object to the form, to the 4 extent you're asking her to testify about 5 Ethicon's purposes. 6 THE WITNESS: Right. So I don't know what 7 Ethicon's intent is. But I can say that I think 8 there are a number of different types of people 9 who come to providing these kinds of surgical 10 procedures. There are people like myself who 11 came through a training program where there were 12 experienced physicians, surgeons, who were, like 13 based on their own experience, able to 14 thoroughly and adequately train me and others 15 like me to do these procedures. 16 There are others for whom this procedure 17 became something that even though they did 18 perhaps other procedures for urinary 19 incontinence, this was new to them since 20 entering practice, and so they would require 21 some additional training besides their residency 22 training because this wasn't available then. So 23 there are lots of different reasons and 24 different ways you might come to doing one of 25 these procedures, and I think based on your</p>	<p style="text-align: right;">Page 100</p> <p>1 than J & J or Ethicon? 2 A. No. 3 Q. And we're going to talk a little bit more 4 in detail about this, but tell me about your patent 5 on vaginal suspension procedure. Does -- first of 6 all, does that involve polypropylene mesh? 7 A. So the patent itself does not specifically 8 involve polypropylene mesh, although polypropylene 9 mesh is certainly one of a variety of things that 10 could be used in the patent. Patent is really about 11 a methodology for providing a suspension of the 12 vagina using the sacrum as a suspension point, and 13 doing that procedure through the vagina as opposed to 14 laparoscopically or abdominally in what's known as a 15 sacrocolpopexy which is usually done through an 16 abdominal approach. 17 Q. So are you in talks with any 18 pharmaceutical company or medical device company 19 about this patent? 20 A. No. I mean, not any -- not any talks that 21 would have to do with adopting the product or using 22 the product, no. 23 Q. Have you spoken with J & J or Ethicon 24 about this patent? 25 A. So the patent has only been present in its</p>
<p style="text-align: right;">Page 99</p> <p>1 background and the timing of it, you might need 2 some additional training. 3 BY MS. WHITE: 4 Q. Have you ever sat on a J & J or Ethicon 5 advisory board? 6 A. I don't think so, no. 7 Q. And other than your work as an expert in 8 terms of the mesh litigation, have you ever had a 9 professional contract for work that you entered into 10 with J & J or Ethicon over the course of your career? 11 MR. RUMANEK: Object to the form. 12 THE WITNESS: I'm not even sure what that 13 means. I mean, was I -- was I a proctor as a 14 fellow and signed something that said I would be 15 a proctor? Possibly. 16 BY MS. WHITE: 17 Q. Did you get paid for being a proctor? 18 A. I don't know. I mean, I'm not sure. I'm 19 giving an example of something that I would have 20 signed. And I -- that's not how I would have 21 characterized myself, but I think that's certainly 22 something that I might have done as part of the 23 signature process of participating in those things. 24 Q. Have you ever worked for a consultant or 25 an expert for any other pharmaceutical company other</p>	<p style="text-align: right;">Page 101</p> <p>1 completed form for about a year. And no, I haven't 2 spoken with them about the patent. And I know that I 3 didn't speak with them before then about it because 4 there was never a nondisclosure agreement or any of 5 those things signed between them. 6 Q. Okay. So as you sit here today, do you 7 recall any complications that arose with the TVT-O 8 during your fellowship program where you were 9 training under Dr. Rosenblatt? 10 MR. RUMANEK: Object to the form. 11 THE WITNESS: I do not. 12 BY MS. WHITE: 13 Q. Okay. When you have a complication with a 14 medical device, do you automatically report that to 15 the FDA? 16 MR. RUMANEK: Object to the form. 17 THE WITNESS: Do I automatically? 18 BY MS. WHITE: 19 Q. Yeah. 20 A. No, I do not automatically. And I think 21 the other question there is really about what is a 22 complication from a medical device specifically. I 23 mean, there are lots of surgical complications from 24 almost any procedure that are possibly but also maybe 25 not associated with the device itself.</p>

26 (Pages 98 to 101)

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1 Q. Okay. Let's --
 2 (Pulliam 4 was marked for identification.)
 3 BY MS. WHITE:
 4 Q. I'm going to hand you what we have marked
 5 as Exhibit 4.
 6 MS. WHITE: I brought a copy for you, but
 7 I'm sure you've got it, her expert report?
 8 MR. RUMANEK: I've got it. That's fine.
 9 Thank you, though. I do appreciate.
 10 BY MS. WHITE:
 11 Q. And, Dr. Pulliam, is that your expert
 12 report?
 13 A. Yes, it's my expert report.
 14 MR. RUMANEK: Make sure it's signed. I'm
 15 sure it is, but --
 16 BY MS. WHITE:
 17 Q. When did Ethicon first approach you about
 18 being a general urogyn expert in the transvaginal
 19 mesh litigation?
 20 A. In November or December. I think it was
 21 December 2016.
 22 Q. And who approached you?
 23 A. Mr. Rumanek.
 24 Q. Who?
 25

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1 MR. RUMANEK: I did.
 2 BY MS. WHITE:
 3 Q. Okay. Can you say his name for the
 4 record?
 5 A. Eric Rumanek.
 6 Q. Were you aware that some of your
 7 colleagues, such as Dr. Rosenblatt, had agreed to
 8 serve as an expert for Ethicon prior to you agreeing
 9 to do so?
 10 A. I wasn't aware that Dr. Rosenblatt had
 11 agreed to be an expert witness for Ethicon, no.
 12 Q. What about Catherine Matthews?
 13 A. No, I was not.
 14 Q. Do you know Kim Kenton?
 15 A. I know who Kim Kenton is. And I was not
 16 aware that she was an expert witness when I agreed to
 17 do this.
 18 Q. Did you discuss your decision to serve as
 19 an expert with any of your colleagues prior to
 20 agreeing to do so?
 21 A. No, I did not.
 22 Q. Did you discuss it with your superiors at
 23 UNC?
 24 A. I discussed it with Dr. Clarke-Pearson,
 25 the chair of my department.

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1 Q. And what did he have to say about it?
 2 MR. RUMANEK: Object to the form.
 3 THE WITNESS: We discussed it primarily as
 4 it concerned my other responsibilities at the
 5 institution, and he was supportive.
 6 BY MS. WHITE:
 7 Q. So do you recognize Exhibit 4?
 8 A. I do.
 9 Q. Did you write that report by yourself?
 10 MR. RUMANEK: Object to the form.
 11 THE WITNESS: I wrote this report by
 12 myself and submitted it in to counsel.
 13 BY MS. WHITE:
 14 Q. Say that again?
 15 A. I wrote it by myself and submitted it to
 16 counsel --
 17 Q. So it's your test- --
 18 A. -- to discuss.
 19 Q. Okay. So it's your testimony that you
 20 wrote every word of the report by yourself?
 21 MR. RUMANEK: Object to the form. And
 22 I'll instruct the witness not to answer about
 23 any drafts that may have been created or
 24 discussed with counsel.
 25

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1 BY MS. WHITE:
 2 Q. I'm not asking about drafts. Did you
 3 write every word of the report by yourself?
 4 MR. RUMANEK: Object to the form.
 5 THE WITNESS: So every word in this report
 6 is my own.
 7 BY MS. WHITE:
 8 Q. Okay. Did you have any input from counsel
 9 from Ethicon?
 10 (Instruction not to answer.)
 11 MR. RUMANEK: Object to the form. I'm
 12 going to instruct the witness not to answer the
 13 question.
 14 MS. WHITE: That's a perfectly
 15 appropriate.
 16 MR. RUMANEK: I'm going to instruct the
 17 witness not to answer the question.
 18 MS. WHITE: So to be clear, for the
 19 record, you're not permitting her to answer
 20 whether or not there was input from counsel from
 21 Ethicon?
 22 MR. RUMANEK: Correct.
 23 BY MS. WHITE:
 24 Q. Did you have any input from Ethicon
 25 company officials?

27 (Pages 102 to 105)

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1 A. No, I did not.
 2 Q. Without telling me what was said, how much
 3 time have you spent speaking with Ethicon lawyers
 4 about the report?
 5 A. An hour or two.
 6 Q. An hour or two?
 7 A. Uh-huh. I think also that the report and
 8 preparation for the deposition -- I mean, I'm
 9 assuming that you're talking about the creation of
 10 the report. Is that right?
 11 Q. Yes, ma'am.
 12 A. Okay.
 13 Q. In the general reliance list -- let's go
 14 ahead and mark that.
 15 MR. RUMANEK: I've got a copy of it as
 16 well.
 17 (Pulliam 5 was marked for identification.)
 18 BY MS. WHITE:
 19 Q. Dr. Pulliam, I'm going to hand you
 20 Exhibit 5. Did you put together the general reliance
 21 list?
 22 A. Counsel put together the general reliance
 23 list.
 24 Q. And that was provided to you by counsel?
 25 A. The general reliance list was created by

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1 A. Correct.
 2 Q. Okay. And what did you provide them with?
 3 A. So when I created this report, what I did
 4 was I used PubMed to write the report and then
 5 reviewed and provided citations from the literature
 6 that I used at PubMed and then I turned to some of
 7 the literature that was provided to me and reviewed
 8 it as well. And then all of that was provided for
 9 the generation of this report.
 10 Q. Have you reviewed every single document
 11 that is contained in Exhibit 5?
 12 A. So I have reviewed to varying degrees of
 13 detail most of the documents here.
 14 Q. Okay. And you know this is -- I don't
 15 know how many pages. They didn't number it. But
 16 including -- let's go to the last page, for example,
 17 of Exhibit 5.
 18 A. Uh-huh.
 19 Q. I may be referring to the wrong thing.
 20 Let's see. Expert reports?
 21 A. Yeah.
 22 Q. You've reviewed all those expert reports?
 23 MR. RUMANEK: Object to the form.
 24 THE WITNESS: I have probably reviewed
 25 many of these, but not -- not in equal detail.

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1 counsel based on the content of my expert report and
 2 also the information that they provided me before I
 3 began to write the expert report.
 4 Q. Okay. You're telling me that this general
 5 reliance list was put together by counsel based upon
 6 your report?
 7 MR. RUMANEK: Object to the form.
 8 Mischaracterizes what she just said.
 9 THE WITNESS: I'm telling you that this
 10 general reliance list was created based upon the
 11 literature quoted in this report and other
 12 documentation that was provided to me.
 13 BY MS. WHITE:
 14 Q. Okay. So how much of the general reliance
 15 list did you provide counsel?
 16 MR. RUMANEK: Objection.
 17 BY MS. WHITE:
 18 Q. Did you have any input at all with general
 19 reliance list?
 20 MR. RUMANEK: Object to form.
 21 THE WITNESS: I did. I did.
 22 BY MS. WHITE:
 23 Q. Okay. So it's your testimony that you
 24 provided them some of the materials that went into
 25 what we have marked as Exhibit 5?

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1 BY MS. WHITE:
 2 Q. Okay. What are some you've reviewed in
 3 more detail? Just point them out to me. Expert
 4 reports. Last page of Exhibit 5.
 5 A. So it's a little hard for me to
 6 specifically identify these based on the way that
 7 they're listed here. I have looked through some by
 8 Dr. Blaivas, for example, and those would probably be
 9 the ones that I am more familiar with. But I would
 10 say that, in general, those weren't the kinds of
 11 things that I relied on primarily to formulate my
 12 opinions for this report.
 13 Q. What did you primarily rely upon to
 14 formulate the opinions for your report?
 15 A. So there is a large body of literature, so
 16 large I think that not only is it useful to look at
 17 some of the many studies that exist but also to look
 18 through some and to focus really more on those
 19 portions of literature that summarize some of the
 20 stronger studies here. So, for example, Cochrane
 21 reviews.
 22 Q. So what did you rely upon most? Your
 23 clinical experience, education, background, and
 24 training, or a literature review as the basis for
 25 your opinions?

28 (Pages 106 to 109)

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1 MR. RUMANEK: Object to the form.
 2 THE WITNESS: I think it's really
 3 impossible to say most. Over the course of a
 4 career, there is familiarity with the literature
 5 that is bred right into the development of
 6 surgical technique, interaction with colleagues,
 7 attending and -- attendance at meetings which,
 8 in fact, are really sometimes the first time you
 9 encounter the literature. So I think it would
 10 be difficult to say one or the other.
 11 BY MS. WHITE:
 12 Q. Okay. I'm going to ask you to try,
 13 though. I only have one opportunity to depose you.
 14 So I'm trying to figure out the basis for your
 15 opinions in this case. Is it more on your clinical
 16 experience or is it more on your review of the
 17 literature?
 18 MR. RUMANEK: Object to the form. Asked
 19 and answered. You don't have to answer it
 20 differently other than the way you answered it.
 21 MS. WHITE: Speaking objections are not
 22 permitted and you know that. You can answer.
 23 THE WITNESS: I think that all of the
 24 things that you've mentioned have contributed to
 25 my opinions today.

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1 BY MS. WHITE:
 2 Q. Okay. I'm going to ask you one more time.
 3 So what did you rely on most? Is it your clinical
 4 experience or review of the literature in formulating
 5 your expert opinions in this matter?
 6 MR. RUMANEK: Object to the form. Object
 7 to the form. Asked and answered.
 8 THE WITNESS: It's impossible for me to
 9 differentiate those.
 10 BY MS. WHITE:
 11 Q. Okay. So then are you saying it's equal
 12 reliance on a literature review as opposed to your
 13 clinical experience? I'm just trying to figure it
 14 out, Doctor.
 15 MR. RUMANEK: Object to form. Asked and
 16 answered.
 17 THE WITNESS: I'm saying it's impossible
 18 for me to differentiate those. They're
 19 intertwined.
 20 (Pulliam 6 was marked for identification.)
 21 BY MS. WHITE:
 22 Q. So I'm going to hand you Exhibit 6. And
 23 do you recognize that document?
 24 A. Yes.
 25 Q. And what is that?

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1 A. This is additional information reliance
 2 list.
 3 Q. And I'll represent to you I only got that
 4 two days ago. So the supplemental general reliance
 5 list, is that information counsel provided to you or
 6 you provided to counsel?
 7 MR. RUMANEK: Object to the form.
 8 THE WITNESS: I don't actually -- I mean,
 9 I'm not sure that I can go through each one of
 10 these and look up which ones are which to see
 11 which is which. I mean, I can tell you that
 12 these -- for example, these that are the
 13 communications from Ethicon are -- and
 14 professional education things are clearly things
 15 that counsel provided me. I expect that there
 16 are some quotes, some papers here that are
 17 things that I provided them.
 18 BY MS. WHITE:
 19 Q. Have you read or reviewed each and every
 20 document in supplemental general reliance list which
 21 has been marked as Exhibit 6?
 22 MR. RUMANEK: Object to the form.
 23 THE WITNESS: I am familiar with much of
 24 this literature and have read in detail some of
 25 it.

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1 BY MS. WHITE:
 2 Q. Okay. That's not my question.
 3 MR. RUMANEK: You may not have understood
 4 her question.
 5 THE WITNESS: No, I guess I didn't. Go
 6 ahead.
 7 BY MS. WHITE:
 8 Q. Have you reviewed each and every document
 9 on Exhibit 6, contained in Exhibit 6?
 10 MR. RUMANEK: I just want to make sure.
 11 When she says "document," she doesn't just mean
 12 the literature. She means every entry on
 13 Exhibit 6. Does that clarify?
 14 THE WITNESS: I understand. I guess I'm
 15 thinking only of the papers and studies. I have
 16 looked at some of these e-mails and other things
 17 and familiarized myself with the content, but
 18 they're not usually the kinds of things that I
 19 would use in the creation of my expert report
 20 because they're not the important things in
 21 terms of what the science is behind the studies.
 22 BY MS. WHITE:
 23 Q. Yeah. And I'm trying to figure out the
 24 basis of your expert report. We have talked about
 25 that some. You said you can't differentiate, right,

29 (Pages 110 to 113)

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1 between clinical experience and literature review?
 2 A. Uh-huh.
 3 Q. Okay. Is there anything else that you're
 4 relying on to form the basis of your opinions in this
 5 litigation?
 6 MR. RUMANEK: Object to the form.
 7 THE WITNESS: So you mean in addition to
 8 clinical experience and the literature review?
 9 BY MS. WHITE:
 10 Q. Yes, Doctor.
 11 A. Absolutely. I think there's my training.
 12 I think there's my exposure at professional meetings
 13 and my interaction with other professionals.
 14 Q. Okay. So I want to talk to you now about
 15 your clinical experience. So your first job outside
 16 training was as the associate director of
 17 urogynecology and pelvic reconstructive surgery at
 18 Mass General, right?
 19 A. That's right.
 20 Q. Okay. So from August 2006 through 12 of
 21 2012, let's see here.
 22 A. Go back to my --
 23 Q. Yeah, I've got to go back to it, too.
 24 Let's do it this way. From August of 2006 to 12 of
 25 2015, did you implant TVT for the treatment of stress

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1 number 700?
 2 A. That's it. I can also and have in the
 3 past, although I didn't re-perform it because I don't
 4 have access to those records at Mass General any
 5 longer, I can run a billing record to see how many I
 6 performed in that way. That's probably the most
 7 reliable way to figure out how many of those I
 8 performed.
 9 Q. Okay. I'm asking you how you came up with
 10 that number for the expert report that's been
 11 submitted in this federal court case.
 12 A. That's math.
 13 Q. Okay. So just so I'm clear, you came up
 14 with the number 700 based upon the average number of
 15 mid-urethral slings you perform in a month?
 16 A. That's right.
 17 Q. Okay. So on average, how many do you
 18 implant in a month?
 19 A. Do you have a calculator?
 20 Q. I don't.
 21 A. Okay. So it's been 12 months times 10
 22 years. 5.8 is the average number.
 23 Q. Have you kept a database of all your
 24 clients for the past ten years?
 25 A. I have not.

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1 urinary incontinence?
 2 A. I did.
 3 Q. Okay. And from August 2006 to 12-2015,
 4 did you implant TVT-O for the treatment of stress
 5 urinary incontinence?
 6 A. I did.
 7 Q. Okay. Doctor, did we mark your expert
 8 report?
 9 A. Yes.
 10 Q. What number is that?
 11 MR. RUMANEK: That's 4.
 12 BY MS. WHITE:
 13 Q. 4. Okay. So -- and you may want to keep
 14 this in front of you. In your expert report, you say
 15 that you have performed 700 mid-urethral slings over
 16 the past ten years, right?
 17 A. That's right, roughly.
 18 Q. And how do you know that you have
 19 performed more than 700 mid-urethral slings over the
 20 past ten years?
 21 A. So I can look at two things. The most
 22 reliable thing I think is to understand how many I do
 23 in an average month and then realize the number of
 24 months I've been practicing. Right?
 25 Q. Okay. So that's how you came up with the

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1 Q. Have you in any way -- oh, go ahead.
 2 A. I was going to say, I think keeping that
 3 and keeping that outside the confines of the hospital
 4 in my office would have not been true to patient
 5 confidentiality.
 6 Q. Have you in any other way for the past ten
 7 years tracked your patients?
 8 MR. RUMANEK: Object to the form.
 9 THE WITNESS: I'm not sure what you mean
 10 by tracking.
 11 BY MS. WHITE:
 12 Q. Well, again, I'm trying to figure out how
 13 you came up to 700. And I think it's based upon your
 14 thoughts on how many slings you place monthly, right?
 15 A. That's right.
 16 Q. On average? And that's how you came up
 17 with that number?
 18 A. Uh-huh.
 19 Q. So is there any other basis for the 700
 20 mid-urethral slings other than what you just
 21 testified to?
 22 A. No, there's not.
 23 Q. All right. So based on that 700 number
 24 that you put in your expert report for this federal
 25 court case --

30 (Pages 114 to 117)

Golkow Technologies, Inc - 877.370.3377

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1 A. Yes.
 2 Q. -- how many polypropylene mid-urethral
 3 slings did you implant from August of 2006 through
 4 December of 2015?
 5 A. So I think what you're asking me is how
 6 many have I done since that time and to make that
 7 subtraction? Is that what you're asking me?
 8 Q. Yeah, the question is simple. Out of that
 9 700 mid-urethral slings over the past 10 years, how
 10 many were polypropylene?
 11 MR. RUMANEK: Object to the form and the
 12 characterization of the question. I don't think
 13 it's simple.
 14 THE WITNESS: So in addition to
 15 polypropylene mesh slings, there would have been
 16 slings constructed of rectus fascia. That would
 17 have been a small percentage of the slings that
 18 I've done over that time frame so probably 20 of
 19 them over the last 10 years I've done that were
 20 not mesh slings.
 21 BY MS. WHITE:
 22 Q. Okay.
 23 A. So that would leave 680 that would be mesh
 24 slings.
 25 Q. How many of those 680 mesh slings were

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1 Q. Yes, ma'am.
 2 A. -- with the portion of the trocar that's
 3 got the reusable handle. And TVT-O, TVT Abbrevio.
 4 And then since I've been here at the University of
 5 North Carolina, TVT Exact has replaced the TVT
 6 device.
 7 Q. Okay. Out of the 680 polypropylene mesh
 8 mid-urethral slings, a vast majority being Ethicon, I
 9 need you to tell me how many are TVT-R.
 10 A. So the TVT-R, probably -- I mean, since
 11 I've been here, I've done -- they didn't have the
 12 TVT-R here, and I've gone with the Exact. So if --
 13 let's just say for easy math, I did five a month
 14 since I've been here, and I do probably
 15 three-quarters of my slings as TVT Retropubic or TVT,
 16 yeah, retropubic. So let's say three quarters of 680
 17 minus 60. That's 450 roughly.
 18 MR. RUMANEK: Let the record reflect that
 19 counsel assisted with a calculator.
 20 BY MS. WHITE:
 21 Q. All right. How many of the 680 involve
 22 TVT-O?
 23 A. Can I see your calculator?
 24 Q. Why don't you just keep it, Doctor? I'll
 25 be happy to even give you my cell phone if you want,

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1 Ethicon products?
 2 A. The vast majority.
 3 Q. Well, what other products did you use
 4 other than Ethicon?
 5 A. There may have been some Bard products
 6 there. And I can't remember the name of the other
 7 brand with the nondisposable trocars that we used for
 8 a brief time.
 9 Q. Did you use AMS products?
 10 A. I don't think so.
 11 Q. Boston Scientific?
 12 A. I don't think so.
 13 Q. Coloplast?
 14 A. Possibly.
 15 Q. You just don't know?
 16 A. No, I know that the majority of the slings
 17 that I've used over this time have been Ethicon
 18 slings and that the others were not things we decided
 19 to go with as a group.
 20 Q. So out of those 680 mesh polypropylene
 21 mesh slings, vast majority being Ethicon, can you
 22 please identify for the record which specific Ethicon
 23 products you have used?
 24 A. Uh-huh. So TVT -- TVT-R I guess is the
 25 designation -- I've used the retropubic sling --

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1 a calculator.
 2 A. 680 minus what was the number I just gave
 3 you? 450. So roughly 230.
 4 MR. RUMANEK: And you said Exact --
 5 THE WITNESS: I'm sorry. That was TVT-O.
 6 Oh, right?
 7 BY MS. WHITE:
 8 Q. No, TVT-O.
 9 A. TVT-O. Okay, I apologize. So I probably
 10 started using Abbrevio maybe three or four years ago.
 11 So let's say I did 150 TVT-Os and the remainder are
 12 Abbrevios so another 180.
 13 Q. You've lost me. Let me rephrase the
 14 question.
 15 A. Sure.
 16 Q. I'm not trying to drag this out, God
 17 knows, but I need to know how many of the 680
 18 transvaginal polypropylene mesh mid-urethral slings
 19 were TVT-O.
 20 A. Probably about 120 of them. That's an
 21 estimate.
 22 Q. Okay. How many of the 680 polypropylene
 23 mid-urethral slings that you have implanted has been
 24 TVT Abbrevio?
 25 A. I guess that leaves 110 as the total

31 (Pages 118 to 121)

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<p style="text-align: right;">Page 122</p> <p>1 number if we're doing the math. Is that right?</p> <p>2 Q. You need to tell us.</p> <p>3 A. Right.</p> <p>4 MR. RUMANEK: And she's -- she's doing her</p> <p>5 best to do the math.</p> <p>6 THE WITNESS: I'm doing my best to do</p> <p>7 math. This is not something that is included in</p> <p>8 my report, and it's all something that I'm</p> <p>9 deriving off the top of my head because this is</p> <p>10 not, again, something I based my general report</p> <p>11 upon in terms of the specific numbers.</p> <p>12 BY MS. WHITE:</p> <p>13 Q. Okay. Well, you did tell us in this</p> <p>14 report you've done 700 mid-urethral slings?</p> <p>15 A. That's correct.</p> <p>16 Q. So I'm trying to figure out your basis for</p> <p>17 being an expert --</p> <p>18 A. Right.</p> <p>19 Q. -- on behalf of Ethicon in support of</p> <p>20 their products.</p> <p>21 A. Sure.</p> <p>22 Q. Okay. So how many are TVT Abbrevo?</p> <p>23 A. So I believe I said 120. Is that correct?</p> <p>24 MR. RUMANEK: So you said 450, was that</p> <p>25 TVT --</p>	<p style="text-align: right;">Page 124</p> <p>1 A. And so that I can make my estimate</p> <p>2 complete, I'd like to look back, if it's possible, to</p> <p>3 hear what my answer was about the TVT Exact.</p> <p>4 Q. Sure.</p> <p>5 (Whereupon the Court Reporter read the</p> <p>6 requested testimony.)</p> <p>7 BY MS. WHITE:</p> <p>8 Q. Doctor, you testified clearly that it's</p> <p>9 450 TVT-R.</p> <p>10 A. That's right.</p> <p>11 Q. And 120 TVT-O.</p> <p>12 A. Okay.</p> <p>13 Q. If you need to stop and figure it out for</p> <p>14 Abbrevo, please do. But I need to know how many</p> <p>15 involve TVT Abbrevo.</p> <p>16 MR. RUMANEK: Object to the form and the</p> <p>17 characterization.</p> <p>18 THE WITNESS: Okay. So we have got TVT-R</p> <p>19 and we have got TVT-O which I've said 450 and</p> <p>20 120.</p> <p>21 BY MS. WHITE:</p> <p>22 Q. Yes, ma'am.</p> <p>23 A. Okay. And then I think the -- there are</p> <p>24 60 or so that were TVT Exact.</p> <p>25 Q. Okay.</p>
<p style="text-align: right;">Page 123</p> <p>1 BY MS. WHITE:</p> <p>2 Q. Stop.</p> <p>3 A. Can we go back? I think we have had this</p> <p>4 very confusing conversation here, and I would like to</p> <p>5 review the numbers.</p> <p>6 MR. RUMANEK: I'm not trying to interject.</p> <p>7 Let's go off the record.</p> <p>8 (Off record discussion.)</p> <p>9 BY MS. WHITE:</p> <p>10 Q. We're going to go back on the record. I'm</p> <p>11 going to ask you questions. If you can't answer my</p> <p>12 questions, say "I don't know." Okay?</p> <p>13 A. Okay.</p> <p>14 Q. All right. So Doctor, you previously</p> <p>15 testified that out of the 680 polypropylene</p> <p>16 mid-urethral slings that you have placed, 450 is</p> <p>17 TVT-R.</p> <p>18 A. Okay.</p> <p>19 Q. You then testified that 120 has been</p> <p>20 TVT-O. My question to you is, how many of the 680</p> <p>21 have involved TVT Abbrevo?</p> <p>22 A. Okay. And somewhere in there, I think I</p> <p>23 answered a question about Exact as well.</p> <p>24 Q. Okay. My question on the table is how</p> <p>25 many have been TVT Abbrevo?</p>	<p style="text-align: right;">Page 125</p> <p>1 A. Okay? And that would leave 50 that are</p> <p>2 Abbrevo. So that's, to recap, 450 for TVT-R; 120 for</p> <p>3 TVT-O; 60 for TVT Exact; and 50 for TVT Abbrevo.</p> <p>4 Q. When was the last time you implanted a</p> <p>5 TVT?</p> <p>6 A. The last time I implanted a TVT was in</p> <p>7 December -- a TVT Retropubic, not the Exact; is that</p> <p>8 correct?</p> <p>9 Q. Yes, ma'am, yes, ma'am.</p> <p>10 A. That would be December of 2015.</p> <p>11 Q. What Ethicon product do you currently use</p> <p>12 for the treatment of stress urinary incontinence --</p> <p>13 MR. RUMANEK: Object to the form.</p> <p>14 BY MS. WHITE:</p> <p>15 Q. -- in terms of the mid-urethral sling?</p> <p>16 MR. RUMANEK: Object to the form.</p> <p>17 THE WITNESS: Retropubic sling?</p> <p>18 BY MS. WHITE:</p> <p>19 Q. Yes.</p> <p>20 A. Okay. For my retropubic sling, I</p> <p>21 currently use TVT Exact.</p> <p>22 Q. Why do you no longer use TVT?</p> <p>23 A. Because the TVT Exact was the brand of</p> <p>24 sling that was available here. I regard it as</p> <p>25 substantially similar to the TVT that I used in my</p>

32 (Pages 122 to 125)

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1 previous place of employment and so moved forward
 2 with that.
 3 Q. When was the last time you implanted
 4 TVT-O?
 5 A. TVT-O?
 6 Q. Yes, ma'am.
 7 A. It's probably been about three years,
 8 possibly four.
 9 Q. Why have you predominantly utilized
 10 Ethicon mid-urethral slings during your professional
 11 career for the treatment of stress urinary
 12 incontinence?
 13 A. So I think we talked about this maybe
 14 before. But I think there is a great deal of
 15 research, a great deal of evidence that would support
 16 the use of them. They are -- it's a product that's
 17 been present for a long time. And it's a product
 18 that I feel comfortable using. And so from my
 19 clinical experience, I've had good results so I
 20 continue to use it.
 21 Q. How many of the 680 polypropylene
 22 mid-urethral slings that you have placed involved
 23 mechanically cut TVT? Let's do it this way. Bad
 24 question. I'm going to withdraw that. Okay?
 25 How many of the 450 TVT-R, retropubic,

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1 answered.
 2 THE WITNESS: I don't know.
 3 BY MS. WHITE:
 4 Q. If the TVT mechanically cut device was
 5 taken off the market, it wouldn't affect your ability
 6 to offer surgical options to women for the treatment
 7 of stress urinary incontinence; is that true?
 8 MR. RUMANEK: Object to form.
 9 THE WITNESS: If the TVT mechanically cut
 10 device was taken off the market --
 11 BY MS. WHITE:
 12 Q. Could you still surgically treat women for
 13 stress urinary incontinence?
 14 A. Yes.
 15 Q. Do you know, Doctor, whether or not you're
 16 implanting mechanical cut versus laser cut?
 17 MR. RUMANEK: Object to form.
 18 THE WITNESS: So the TVT Exacts are laser
 19 cut.
 20 BY MS. WHITE:
 21 Q. Okay. So back in the day when you were
 22 doing TVT, did you know whether or not you were
 23 implanting mechanical cut versus laser cut?
 24 A. I know there was a transition between
 25 mechanical cut and laser cut. I couldn't tell you

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1 have involved mechanically cut TVT?
 2 MR. RUMANEK: Object to the form.
 3 THE WITNESS: I don't know.
 4 BY MS. WHITE:
 5 Q. How many of the 450 TVT-R -- and, again,
 6 when I say TVT-R or TVT, we're -- they're
 7 synonymous -- have involved laser cut mesh?
 8 MR. RUMANEK: Object to the form.
 9 THE WITNESS: I would say that if I didn't
 10 know the answer to the first question, the
 11 answer to the second is those remaining. I
 12 don't know.
 13 BY MS. WHITE:
 14 Q. Okay. That's fine just to say that. Have
 15 you over the past ten years documented whether or not
 16 you were implanting a TVT laser cut or a TVT
 17 mechanical cut?
 18 A. So the documentation of the specific
 19 device is always a matter of medical record. So yes.
 20 I mean, it would be documented with every device in
 21 as much as the device reflects whether it's laser cut
 22 or mechanically cut.
 23 Q. Do you know how many TVT laser cut TVTs
 24 you have implanted versus TVT mechanical cut?
 25 MR. RUMANEK: Object to form. Asked and

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1 the exact date of that, but no. And it wasn't
 2 important to me as a transition in terms of the
 3 appropriate care of patients or in my outcomes.
 4 MR. RUMANEK: We have been going a while
 5 so whenever we get to a stopping point, we can
 6 take a little break.
 7 BY MS. WHITE:
 8 Q. Of the 680 patients you've implanted with
 9 polypropylene mid-urethral slings, how many have come
 10 back to you with complications?
 11 A. Oh. Again, it would be an estimate. But
 12 I think probably five to seven.
 13 Q. You mean five to seven patients?
 14 A. That's correct. Part of the reason that
 15 it's difficult to estimate is that I think when
 16 you're asking me about my own that I implant, I think
 17 that's probably the number that's most important
 18 there in that question.
 19 Q. That's exactly what I'm asking you about.
 20 A. Okay.
 21 MS. WHITE: All right. We'll take a
 22 break.
 23 (A recess transpired from 1:18 p.m.
 24 until 1:25 p.m.)
 25

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1 BY MS. WHITE:
 2 Q. So I want to pick up where we left off. I
 3 had asked you of the 7 -- actually of the 680
 4 patients where you surgically implanted a
 5 polypropylene mid-urethral sling how many have come
 6 back to you with complications. And you said that
 7 five to seven patients.
 8 A. Right.
 9 Q. So I need you to break that down for me.
 10 Of those five to seven patients, how many have been
 11 implanted with TVT?
 12 A. Probably five.
 13 Q. Okay. And of those five, how many have
 14 been implanted with TVT mechanical cut?
 15 MR. RUMANNEK: Object to the form.
 16 THE WITNESS: As I don't know the number,
 17 when the mechanical cut change happened, I'm not
 18 able really to say how many so I don't know.
 19 BY MS. WHITE:
 20 Q. Okay. And do you know how many of those
 21 five had TVT laser cut?
 22 MR. RUMANNEK: Object to the form.
 23 THE WITNESS: As I don't know about the
 24 mechanical cut, I also don't know about the
 25 laser cut.

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1 BY MS. WHITE:
 2 Q. Okay. And how many of those patients who
 3 came back to you had TVT-O?
 4 A. Three. That's five plus three.
 5 Q. That means eight patients?
 6 A. Five plus two. Sorry. Two. I'm
 7 estimating and so two.
 8 Q. Okay. And, Doctor, of those 680 patients
 9 you surgically implanted polypropylene mid-urethral
 10 sling, you don't know how many experienced
 11 complications but went to another doctor; is that
 12 fair to say?
 13 MR. RUMANNEK: Object to the form.
 14 THE WITNESS: I think that that's fair to
 15 say for anyone who does any surgical procedure
 16 of any kind.
 17 BY MS. WHITE:
 18 Q. Okay. So if I understand you correctly,
 19 you currently treat stress urinary incontinence
 20 surgically with it's TVT Exact; is that right?
 21 A. TVT Exact, yes, that's right.
 22 Q. Okay. And what other sort of
 23 polypropylene sling?
 24 A. TVT Abbrevio.
 25 Q. Okay. And how else do you treat stress

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1 urinary incontinence surgically if you don't use a
 2 polypropylene sling, either TVT Exact or TVT Abbrevio?
 3 A. The other two things I might consider
 4 using under specific circumstances would be a
 5 laparoscopic Burch procedure. I could use an open
 6 Burch, meaning an abdominal incision, if there was an
 7 abdominal incision happening for a different reason.
 8 Q. Okay.
 9 A. I use periurethral Coaptite injections.
 10 Periurethral Coaptite injections. And pubovaginal
 11 slings using rectus fascia typically.
 12 Q. So -- so what -- let me ask you this:
 13 Surgically speaking, what procedure do you most use
 14 to treat stress urinary incontinence these days?
 15 A. I most use?
 16 Q. Uh-huh.
 17 A. TVT Exact.
 18 Q. And give me a percentage in real time
 19 here -- so hopefully this will be a little bit easier
 20 for you -- here at UNC, what percentage of the time
 21 when you're surgically treating stress urinary
 22 incontinence would you use TVT Exact?
 23 A. I would expect between 95 and 98 percent
 24 of the time. Oh, I'm sorry. TVT Exact?
 25 Q. Yeah.

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1 A. Probably 90 percent of the time.
 2 Q. Okay. And break down the other 10 percent
 3 for me.
 4 A. The other 10 percent would be 5 to
 5 7 percent TVT Abbrevio, and the other small
 6 percentage, Burch or pubovaginal sling.
 7 Q. So how many times have you surgically
 8 removed or explanted TVT from a patient under general
 9 anesthesia?
 10 A. So are you referring to my own patients,
 11 my own patients in whom I placed mesh slings?
 12 Q. I'm referring to I guess any patient. I
 13 mean, if you've got them in the OR and you're
 14 operating on them, they're your patient, but maybe
 15 someone who's even been referred to you; how many
 16 times have you surgically removed or explanted
 17 polypropylene -- well, strike that.
 18 How many times have you surgically removed
 19 TVT from a patient under general anesthesia?
 20 MR. RUMANNEK: Just so the question is
 21 clear, do you mean TVT Retropubic?
 22 MS. WHITE: Yes.
 23 MR. RUMANNEK: The original?
 24 BY MS. WHITE:
 25 Q. Me and the Doctor have an agreement, TVT

34 (Pages 130 to 133)

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1 equals TVT-R, okay?

2 A. So because I know that my own patients

3 have received TVT, I can use that number, and to say

4 that of the five patients that have come back with

5 problems, probably four of them I have removed that

6 mesh. None of those times to my recollection have

7 they been under general anesthetic. They're all

8 under IV sedation with local anesthetic.

9 Q. Okay. So you've never removed --

10 MR. RUMANEK: Hold on.

11 THE WITNESS: I'm not done yet.

12 BY MS. WHITE:

13 Q. Go on, please.

14 A. I work at a tertiary care center so I'm

15 often referred patients who have had mesh, as you

16 observed; they -- my patients might go to someone

17 else and other people's patients might go to someone

18 else, somewhere else as well. And as I work in a

19 tertiary care center, I often see patients who come

20 in with -- often. I am referred patients, I don't

21 often see them, but when I do, they are patients

22 referred to me from outside sources. And they have

23 had a retropubic sling. It's not always possible for

24 me to say that they were TVT. But, in general, I

25 would say that I can tell more recently if they're a

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1 Q. Okay. Of the approximately ten under

2 general anesthesia, and your testimony is you don't

3 know if it was TVT or not?

4 A. Right.

5 Q. So I guess you don't know whether it was

6 TVT laser cut or mechanical cut?

7 A. I don't know if it was TVT at all, let

8 alone mechanical cut or laser cut.

9 Q. Okay. So TVT-O now.

10 A. Okay.

11 Q. How many TVT-Os have you removed under

12 general anesthesia?

13 A. So of my own patients, which we have

14 agreed is two, both of them were under IV sedation.

15 Q. Okay.

16 A. So zero of my own patients. And, again,

17 same applies here. I don't know if these were TVT

18 products from which I have removed under general

19 anesthesia, but I -- I can think of one patient that

20 was removed TVT-O under general anesthesia or -- or

21 not TVT-O. Transobturator sling. I don't know that

22 it was a TVT-O.

23 Q. So you don't know if you've ever removed a

24 TVT-O under general anesthesia?

25 A. It's just not necessary.

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1 TVT because they're blue.

2 And I have probably worked on, over the

3 course of 10 years, probably 10 or 20 patients who

4 I've removed mesh from from a sling. I'm not sure I

5 can say they're TVT. In fact, I can't. But I would

6 say that about half of them have been under IV

7 sedation so maybe -- maybe 10 over the course of 10

8 years that have gone under general anesthesia. So 10

9 patients over the course of 10 years under general

10 anesthesia, but I'm not sure that they're TVT because

11 it's not always provable.

12 Q. Okay. All right. But you think -- of

13 your own patients?

14 A. Of my own patients.

15 Q. Make sure I get your testimony right.

16 A. Of my own patients.

17 MR. RUMANEK: Let her ask the question.

18 BY MS. WHITE:

19 Q. Of the you said four you've removed mesh

20 from, not under general anesthesia, IV sedation?

21 A. That's right.

22 Q. Okay. Of your four patients that you've

23 removed TVT from, did you remove TVT mechanical cut

24 or laser cut?

25 A. I don't know.

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1 Q. Okay. That's not my question. I'm just

2 asking you, have you removed TVT-O under general

3 anesthesia, and you don't know?

4 MR. RUMANEK: Object to the form of the

5 question.

6 THE WITNESS: What I said was of my own

7 patients, I did not, because it was not

8 necessary, remove TVT-O under general

9 anesthesia. Of patients referred to me, there

10 was one that I removed under general anesthesia,

11 but I'm not certain that it was a TVT-O.

12 BY MS. WHITE:

13 Q. Okay. Understand. How do you know that

14 you have removed TVT four times under general

15 anesthesia? How do you know that?

16 MR. RUMANEK: Object to the form.

17 Mischaracterizes testimony.

18 THE WITNESS: So I am estimating. And I

19 know that the need for general anesthesia when

20 you remove TVT is uncommon.

21 BY MS. WHITE:

22 Q. And why is that?

23 A. Because the mesh erosions that are typical

24 for TVT are underneath the urethra, and this is a

25 common, easily accessible place for mesh erosions. I

35 (Pages 134 to 137)

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1 don't mean that the mesh erosion is common. I mean
2 that if you're going to find it, it's typically near
3 the urethra in the vaginal mucosa.

4 And so, like many other vaginal procedures
5 including the slings themselves, general anesthesia
6 is just not needed. In addition, general anesthesia
7 may or may not have anything to do with the
8 requirements of the surgeon. There are times when
9 general anesthesia is more safe for the patient. And
10 so my knowledge here is an estimate based on my
11 understanding of the number of patients I've
12 experienced and the type of anesthesia.

13 In all honesty, to me, I prefer not to
14 have patients under general anesthesia. And so if
15 that's possible, that's what I like to do.

16 Q. Okay. How many times in your career have
17 you cut or trimmed a mesh erosion or extrusion?

18 MR. RUMANEK: Object to the form.

19 THE WITNESS: So I think --

20 BY MS. WHITE:

21 Q. And let me qualify that. Of a TVT
22 product.

23 A. Right. So I think one thing to say is
24 that the first thing you said, and perhaps I could
25 have clarified then. When you say "remove" and you

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1 A. Uh-huh. And of that four or five,
2 probably three or four of them are -- three of them
3 let's say are TVT, and two of them are TVT-O or
4 Abbrevo.

5 Q. Okay. And I don't want to know about
6 Abbrevo.

7 A. Right.

8 Q. I need to know about TVT and TVT-O.

9 A. Okay. I couldn't differentiate between O
10 and Abbrevo, even if you asked me to.

11 Q. So then you don't know how many is TVT-O?

12 A. I know that the combination of TVT-O and
13 Abbrevo is probably a two.

14 Q. Okay. So let's go back because I want the
15 record to be clear and us to understand your
16 testimony. When I asked you how many times you have
17 surgically removed a TVT from a patient under general
18 anesthesia, you told me four. What did -- what
19 was your --

20 MR. RUMANEK: Object. Sorry. Object to
21 the form. Mischaracterizes her testimony.

22 BY MS. WHITE:

23 Q. Did I misstate something, Doctor? I do
24 want to get this right. Because what I'm trying to
25 get to is what is your understanding of remove. I

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1 then say "cut an extrusion," I'm not sure I think
2 about those as separate items.

3 Q. Okay. That's fine.

4 A. So I think if you're going to ask me about
5 numbers, it's certainly likely that there's going to
6 be an overlap in those numbers because I don't
7 differentiate those in my mind. And there's not a
8 different code for qualifying those sorts of things.

9 Q. So then is it your testimony you have done
10 it four times?

11 A. No.

12 MR. RUMANEK: Object to the form.

13 BY MS. WHITE:

14 Q. So then give me the number of patients
15 where you have implanted TVT that you've then had to
16 go back and either trim or excise the mesh in some
17 way and that patient was not under general
18 anesthesia. That's all I'm trying to get to.

19 A. Okay. And that's a separate thing from
20 your previous question which was remove.

21 Q. That's right.

22 A. Okay. So I think if we're going to call
23 trim, I suspect that's probably another four or five
24 patients.

25 Q. Another four or five?

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1 want to make sure you and I were talking about the
2 same thing.

3 A. Let me tell you what my understanding of
4 remove is.

5 Q. Please.

6 A. Okay. So there are a lot of different
7 categories of remove, and I think as we have been
8 discussing, I've probably thought about the broad
9 categories of removal. Sometimes there is a piece of
10 mesh that's probably less than a centimeter in size
11 that is visible and needs to be removed. Sometimes
12 there is something that can be seen that's more
13 extensive than that that needs to be removed. I
14 mean, there's sort of a broad spectrum of those sorts
15 of things. So that's that.

16 The other would be pieces that are visible
17 that could be excised in the office. And I say this,
18 and I feel like I want to say that I'm describing
19 this large universe of possibilities, but that
20 doesn't imply that there are lots of them. It just
21 implies that there's lots of options for what you --
22 we might be discussing for removal. Right? So you
23 could remove the whole sling from the entire U shape
24 or hammock shape from a TVT or a TVT-O or you could
25 remove a few fibers underneath the urethra.

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1 General principle I think is that you
 2 would like to remove what's necessary, certainly no
 3 less than that and probably no more than that because
 4 you want to minimize any other untoward effects of
 5 surgery, operative time, et cetera.
 6 Q. Okay. Thank you. So I've got to go back
 7 and ask you some questions to clarify your testimony.
 8 Let's do it this way. Given I now understand your
 9 understanding of remove, how many times have you
 10 surgically removed the whole TVT from --
 11 A. The entire TVT?
 12 Q. Yes, ma'am.
 13 A. In a situation in which I knew it was a
 14 TVT?
 15 Q. Yes.
 16 A. Never.
 17 Q. Okay. How many times have you removed the
 18 whole TVT-O from a patient?
 19 A. Again, when I didn't -- when I was certain
 20 it was a TVT product?
 21 Q. Yes.
 22 A. Never.
 23 Q. Okay. So now let's go back and talk about
 24 excising or removing or cutting fibers or strings of
 25 mesh. How many times have you surgically removed

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1 testified --
 2 A. That was before we made the definitions
 3 that we have just created, right.
 4 Q. Okay. So your testimony is that two to
 5 three times you've removed some part of, not the
 6 whole TVT-O?
 7 A. So we talked about fibers.
 8 Q. Right.
 9 A. There is a vast difference between
 10 removing everything and removing fibers.
 11 Q. I understand.
 12 A. Okay. So I'm talking about fibers.
 13 That's what we agreed upon as the -- as the second
 14 category.
 15 Q. Oh, I'm with you. I'm with you. So
 16 you're saying your testimony is two to three times,
 17 right?
 18 A. That's right, in circumstances where I
 19 knew it was a TVT-O.
 20 Q. When was the last time you did a revision,
 21 meaning just a few fibers, to a TVT-O?
 22 A. Probably about two years ago. It's --
 23 it's not something that I have a date on that I can
 24 pull out of my head.
 25 Q. Okay. And I think we have covered this,

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1 under light sedation, no sedation, general
 2 anesthesia, I don't care, how many times have you
 3 removed TVT from a patient?
 4 A. And just to clarify. We have talked about
 5 one extreme which was removing everything.
 6 Q. Yes, ma'am.
 7 A. And now we're talking about what I presume
 8 is the other extreme which is removing just a few
 9 fibers; is that right?
 10 Q. Yes, ma'am.
 11 A. Okay. So probably there, in which I knew
 12 it was a TVT Retropubic?
 13 Q. Yes, ma'am.
 14 A. Probably five times.
 15 Q. Okay. And out of those five times, how
 16 many times was it mechanical cut TVT?
 17 A. I don't recall.
 18 Q. And how many times was it laser cut TVT?
 19 A. I don't recall.
 20 Q. Okay. And TVT-O?
 21 A. Uh-huh.
 22 Q. How many times did you just remove a few
 23 fibers?
 24 A. Two, three times.
 25 Q. Okay. I think you had previously

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1 but I want the record to be clear, have you in your
 2 clinical practice ever followed the outcomes of your
 3 patients who have had mechanically cut TVT versus
 4 laser cut TVT?
 5 MR. RUMANEK: Object to the form.
 6 THE WITNESS: So you're asking me if I
 7 keep a list someplace --
 8 BY MS. WHITE:
 9 Q. Yeah.
 10 A. -- of these patients?
 11 Q. Yes, ma'am.
 12 A. And followed them by contacting them on an
 13 ongoing basis?
 14 Q. No, just keep track of them clinically.
 15 Have you ever either in research, clinical trials,
 16 your practice, ever followed the outcomes of your
 17 patients who have had mechanical cut TVT versus laser
 18 cut TVT?
 19 MR. RUMANEK: Object to form.
 20 THE WITNESS: So have I done a research on
 21 my own patients comparing the two? No, I have
 22 not.
 23 BY MS. WHITE:
 24 Q. Have you ever or do you now specifically
 25 request mechanical cut or laser cut TVT?

37 (Pages 142 to 145)

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1 MR. RUMANEK: Object to form.
 2 THE WITNESS: I do not although I use
 3 TVT Exact which I know to be laser cut.
 4 BY MS. WHITE:
 5 Q. Okay. Back when you were using TVT prior
 6 to coming to UNC, did you specifically request
 7 mechanical cut or laser cut TVT?
 8 A. No, I did not because I don't and haven't
 9 experienced any clinical difference between the two.
 10 Q. How do you know?
 11 A. Because I know that there's been a
 12 changeover. And know that we have used TVT Exact and
 13 also Abbrevio, both of which are laser cut, and I see
 14 results of my patients in follow-up in the clinic.
 15 There's also return of patients who come back if
 16 they've had failure. And I just don't see it.
 17 Q. Okay. So, this is very important. Are
 18 you saying that TVT Abbrevio, TVT Exact, and
 19 TVT Retropubic laser cut and TVT mechanical cut are
 20 all equivalent products?
 21 A. I'm saying that the clinical results I see
 22 from those products are equivalent in terms of the
 23 outcome regarding the stress urinary incontinence.
 24 Q. Well, if it turned out that all five of
 25 your patients who you did some type of revision on

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1 regarding the TVT that you previously testified to,
 2 if that all happened to have been laser cut or
 3 mechanical cut, would that change your opinion?
 4 MR. RUMANEK: Object to the form.
 5 THE WITNESS: I think it's a supposition
 6 to say that that could possibly be the case.
 7 BY MS. WHITE:
 8 Q. But you don't know, do you, Doctor?
 9 MR. RUMANEK: Let her finish her answer.
 10 THE WITNESS: I think that the -- the
 11 truth is that mechanically cut and laser cut
 12 are -- have also not been shown to have higher
 13 rates of erosion or urinary retention or pain or
 14 any of the other reasons that I would think
 15 about needing to remove a sling so I think it's
 16 unreasonable to assume that there would be one
 17 or the other.
 18 BY MS. WHITE:
 19 Q. What is the basis for that opinion?
 20 A. The medical literature.
 21 Q. Okay. So you're relying upon the medical
 22 literature for that opinion?
 23 A. I am.
 24 Q. Because you haven't tracked it in your
 25 career. We have established that, right, this

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1 morning?
 2 MR. RUMANEK: Object to the form.
 3 Mischaracterizes her previous testimony.
 4 THE WITNESS: Even if I did track it in my
 5 own career, we have established that I do -- I
 6 have done 680 of all such slings during my
 7 career, and there are literature which supports
 8 from views of thousands and thousands of women.
 9 It would be useful for me really to refer to the
 10 reviews, to the Cochrane database and other ways
 11 of evaluating large cohorts. In general, that's
 12 the sort of data that I rely on to make the
 13 kinds of decisions about my practice.
 14 BY MS. WHITE:
 15 Q. Okay. Have you ever been provided with
 16 documents from Ethicon that show that the
 17 mechanically cut TVT can fray?
 18 MR. RUMANEK: Object to the form.
 19 THE WITNESS: So I've seen pictures of
 20 mesh provided in this bit of information here,
 21 this information that shows mesh that's been
 22 pulled on and frayed.
 23 BY MS. WHITE:
 24 Q. I don't think that's what I asked you. I
 25 mean, maybe the answer is I don't know. Let me

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1 rephrase the question.
 2 Have you been provided with documents from
 3 Ethicon, meaning Ethicon documents, that show that
 4 the mechanically cut TVT can fray?
 5 A. So I think by fraying, you mean that there
 6 are small particles of mesh that are released if you
 7 pull on a sling? And I've seen that it happens. And
 8 I've seen that from Ethicon.
 9 Q. Do you have an opinion as to what causes
 10 that?
 11 A. Well, I think undue and unnecessary stress
 12 on the sling. I mean, I -- will cause fraying. And
 13 that's I think true about laser cut mesh as well as
 14 mechanically cut mesh.
 15 Q. Have you been provided documents from
 16 Ethicon that show the safety profile of mechanical
 17 cut versus laser cut TVT?
 18 A. In what way the safety profile?
 19 Q. That there's a difference?
 20 A. That there's a difference in safety?
 21 Q. Yes.
 22 MR. RUMANEK: Object to the form.
 23 THE WITNESS: What kind of safety?
 24 BY MS. WHITE:
 25 Q. You don't get to ask me questions. I'm

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1 asking you, have you --
 2 MR. RUMANEK: Hold on just a second. She
 3 can ask. If she needs you to clarify the
 4 question, she can ask you.
 5 BY MS. WHITE:
 6 Q. Let me rephrase it. Have you been
 7 provided documents from Ethicon that show a
 8 difference in the safety profile of mechanical cut
 9 versus laser cut TVT?
 10 MR. RUMANEK: And I just want to stop for
 11 just a second because I don't want what she said
 12 to confuse you in any way. If you don't
 13 understand something that she asks, you
 14 absolutely can ask her questions to clarify it
 15 so please disregard what she said. Go ahead.
 16 THE WITNESS: So I have seen documents
 17 about the safety profile of mesh. And I have
 18 seen documents about the safety profile with
 19 regard to things like cytotoxicity, with regard
 20 to complications from the surgical procedures.
 21 I don't know that I've seen a direct
 22 comparison of laser cut mesh to mechanically cut
 23 mesh in any major research study that would be
 24 meaningful to me, although I know that they've
 25 probably been evaluated on a mechanical basis.

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1 I think probably those kinds of things were the
 2 sorts of things that I reviewed briefly and then
 3 passed over in favor of some of the larger
 4 reviews of the literature.
 5 BY MS. WHITE:
 6 Q. Have you seen documents that show that
 7 mechanically cut TVT can rope?
 8 MR. RUMANEK: Object to the form.
 9 THE WITNESS: So, again, I'm going to
 10 assume that roping means that when it's pulled
 11 on very hard, it becomes thinner and pulls
 12 together? And if that's the case, I have seen
 13 documents that show that it can rope.
 14 BY MS. WHITE:
 15 Q. What -- in your opinion, what causes TVT
 16 to rope?
 17 MR. RUMANEK: Object to the form.
 18 THE WITNESS: In my opinion, what causes
 19 TVT to rope?
 20 BY MS. WHITE:
 21 Q. Yes, ma'am.
 22 A. Are you talking about laser cut or
 23 mechanical cut mesh?
 24 Q. I'm not -- I'm talking mechanical cut.
 25 A. Okay. I think unnecessary, undue stress

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1 on the thing, yanking on it from one end to the other
 2 can cause roping.
 3 Q. So is it your opinion that TVT mechanical
 4 cut only ropes or curls when there's undue pulling
 5 and stretching, meaning undue tension?
 6 MR. RUMANEK: Object to the form.
 7 THE WITNESS: I think that's right. I
 8 think left without undue tension, it's likely to
 9 lay flat which is how it presents in the box and
 10 how it's to be placed.
 11 BY MS. WHITE:
 12 Q. So would that be doctor error in
 13 implantation?
 14 MR. RUMANEK: Object to the form.
 15 THE WITNESS: I think it's hard for me to
 16 say globally about every individual case in
 17 doctor error. But I think that the instructions
 18 for use for all of the TVTs would basically
 19 suggest that it's to be placed flat and tension
 20 free.
 21 BY MS. WHITE:
 22 Q. With no tension?
 23 A. Yeah, with no tension.
 24 (Pulliam 7 was marked for identification.)
 25

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1 BY MS. WHITE:
 2 Q. All right. I'm going to hand you -- I'm
 3 handing you what is Exhibit 7, an IFU?
 4 A. Great.
 5 Q. And are you familiar with Exhibit 7?
 6 A. This looks like the English part of the
 7 TVT instructions for use. Yes, I'm familiar. Is
 8 that right?
 9 MR. RUMANEK: I was just looking at the
 10 year.
 11 MS. WHITE: Let's go off the record for a
 12 minute.
 13 (A recess transpired from 1:54 p.m. until
 14 1:58 p.m.)
 15 BY MS. WHITE:
 16 Q. All right. Back on the record. Sorry
 17 about that. I am sorry Exhibit 7 is so small. I
 18 feel your pain. I really do.
 19 So you just testified that TVT is intended
 20 and supposed to be placed in a tension-free manner.
 21 Is that right, Doctor?
 22 A. That's right.
 23 Q. Okay. So if you take a look at page 5 of
 24 the -- of Exhibit 7. And it's the top bullet. Well,
 25 it's second to the top bullet point. And I'm going

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<p style="text-align: right;">Page 154</p> <p>1 to read it to you.</p> <p>2 A. Okay.</p> <p>3 Q. Just because I know you're probably having</p> <p>4 difficulty. It says, "Ensure that the tape is</p> <p>5 placed" -- wait, wait. Sorry. Back up. Go to page</p> <p>6 4. Go to page 4. I'm sorry.</p> <p>7 Page 4. And it's under Warnings and</p> <p>8 Precautions. And it's the third bullet point. And</p> <p>9 I'm going to try to read this.</p> <p>10 And first of all, Doctor, have you seen</p> <p>11 the IFU before today?</p> <p>12 A. I have.</p> <p>13 Q. Okay. And have you used the IFU in the</p> <p>14 course of your practice, you know, since your</p> <p>15 fellowship through today's date?</p> <p>16 MR. RUMANEK: Object to the form.</p> <p>17 THE WITNESS: So I don't routinely refer</p> <p>18 to the IFU.</p> <p>19 BY MS. WHITE:</p> <p>20 Q. Have you -- did you ever refer to it prior</p> <p>21 to doing a TVT surgical implant on a patient?</p> <p>22 A. If you mean do I read the instructions</p> <p>23 before I do the procedure? I do not.</p> <p>24 Q. No, that's not what I asked. Have you</p> <p>25 ever -- at some point in your career, did you take</p>	<p style="text-align: right;">Page 156</p> <p>1 If you go to page 5, and it is the second</p> <p>2 bullet at the top of page 5. It says, "Ensure that</p> <p>3 the tape is placed with minimal tension under the</p> <p>4 mid-urethra."</p> <p>5 Do you see that?</p> <p>6 A. I do.</p> <p>7 Q. Okay. So I guess my question to you is,</p> <p>8 is it no tension or minimal tension?</p> <p>9 A. So in the instructions for use, I think</p> <p>10 the key thing here is that these are instructions for</p> <p>11 surgery to surgeons. In general, in surgery, in</p> <p>12 placing or controlling something, there is what I'll</p> <p>13 call the gentle approach and then there's the firmer</p> <p>14 grasp. And in the gentle approach, I can give an</p> <p>15 example of holding something that may bleed. It's</p> <p>16 impossible to not hold it perhaps in a surgical</p> <p>17 scenario, but if it's grasped, it needs to be held</p> <p>18 under minimal tension which is the same thing as no</p> <p>19 tension because it will bleed.</p> <p>20 So I think that in reading this as a</p> <p>21 surgeon, I perfectly understand what this is</p> <p>22 instructing me to do. And I don't -- I don't see any</p> <p>23 conflict between the two.</p> <p>24 Q. So what does the scientific literature</p> <p>25 tell physicians in terms of whether it should be no</p>
<p style="text-align: right;">Page 155</p> <p>1 the time to read Ethicon's IFU?</p> <p>2 MR. RUMANEK: Object to the form.</p> <p>3 THE WITNESS: Yes. I've read at least</p> <p>4 portions of it in my career.</p> <p>5 BY MS. WHITE:</p> <p>6 Q. Okay. And so if you go to page 4, and</p> <p>7 it's the third bullet point, it says -- I can't read</p> <p>8 that. Under Warnings and Precautions, "Users should</p> <p>9 be familiar with surgical technique for bladder neck</p> <p>10 suspensions and/or should be adequately trained in</p> <p>11 implanting the GyneCare TVT system before employing</p> <p>12 the GyneCare TVT device. It is important that the</p> <p>13 tape be located without tension under the</p> <p>14 mid-urethra."</p> <p>15 Do you see that?</p> <p>16 A. I do.</p> <p>17 Q. Is that a true statement based upon your</p> <p>18 clinical experience?</p> <p>19 A. So it is true that users should be</p> <p>20 familiar with the surgical techniques for surgery and</p> <p>21 adequately trained. And it is true that the tape</p> <p>22 should be located without tension under the</p> <p>23 mid-urethra.</p> <p>24 Q. Okay. So now, go to page 5. This has</p> <p>25 been a laborsome exercise. Sorry about that.</p>	<p style="text-align: right;">Page 157</p> <p>1 tension or minimal tension?</p> <p>2 MR. RUMANEK: Object to the form.</p> <p>3 THE WITNESS: Scientific literature is</p> <p>4 probably not the place that most people learn to</p> <p>5 do these, just as the IFU is not the place where</p> <p>6 surgeons learn to do these. Surgeons have a</p> <p>7 background in surgical handling of tissues, in</p> <p>8 the placement of other slings in likelihood</p> <p>9 besides suburethral slings and in the treatment</p> <p>10 of all things that have to do with the vagina</p> <p>11 before they do this. So they have vast</p> <p>12 experience in doing vaginal surgery.</p> <p>13 I don't know that I think the literature,</p> <p>14 which refers to the appropriate placement of</p> <p>15 slings, is going to instruct someone in how to</p> <p>16 do it, at least not in a randomized controlled</p> <p>17 trial, looking at tensioning as much as it's the</p> <p>18 surgical training that you have that would lead</p> <p>19 you to understand how to do this.</p> <p>20 BY MS. WHITE:</p> <p>21 Q. So is it your testimony that no tension on</p> <p>22 page 4 is the same as minimal tension on page 5?</p> <p>23 A. It's my testimony that these are surgical</p> <p>24 instructions for surgeons who routinely handle</p> <p>25 tissue.</p>

40 (Pages 154 to 157)

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1 Q. Okay. So based upon your expert opinion,
2 is it acceptable for a physician to place the TVT
3 with minimal tension?

4 A. It is acceptable for a surgeon to place a
5 TVT in the way that they've been trained to place a
6 TVT such that it does not provide urinary retention
7 and does provide treatment for stress urinary
8 incontinence. And I think the literature would
9 suggest that generally we're very successful in doing
10 that with TVT. The success rates are good. The
11 retention rates are low.

12 Q. Then what's the problem with placing the
13 TVT with tension?

14 MR. RUMANEK: Object to the form.

15 THE WITNESS: So the problem with placing
16 the TVT with tension, and I think we're talking
17 about degrees here, right? I mean, I think when
18 I talk with my patients, I essentially tell them
19 that I am an experienced surgeon. And in every
20 kind of surgical procedure you have, you want
21 someone who knows what they're doing. And I
22 know how to place this sling.

23 The problem with unnecessary tension is
24 that it causes or may cause, doesn't always
25 cause, but it may cause voiding dysfunction,

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1 technique of mechanical cutting and then perhaps
2 undue tension on it can cause fraying which releases
3 particles. I think that an interesting thing to note
4 about these particles is that they're made of the
5 very same thing as the mesh. And all of that is made
6 of polypropylene. A suture of polypropylene is
7 essentially the same thing as these particles and so
8 the presence of polypropylene has not been shown
9 historically for a long time to be a problem.

10 Q. What's the basis for your opinion for
11 that?

12 A. My own experience, the fact that
13 polypropylene sutures have been present in surgery
14 for decades.

15 Q. So are you equating the TVT and/or TVT-O
16 in the vagina with a polypropylene suture placed
17 either in the abdomen or the vagina? Are you saying
18 that's essentially the same thing?

19 MR. RUMANEK: Object to the form.

20 Mischaracterizes her testimony.

21 THE WITNESS: I think that I haven't even
22 referred to the abdomen. But I think that there
23 are vaginally placed polypropylene sutures.

24 They even occupy the same space. In history,
25 there have been Kelly plications. Those have

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1 urinary retention.

2 BY MS. WHITE:

3 Q. Okay. And that's very painful for a woman
4 when she has urinary retention, right?

5 MR. RUMANEK: Object to the form.

6 THE WITNESS: Urinary retention sometimes
7 is physically painful. It's not always
8 physically painful.

9 BY MS. WHITE:

10 Q. You don't want that for your patients,
11 right, Doctor?

12 A. I do not want that for my patients.

13 Q. Have you seen internal documents from
14 Ethicon reflecting that the mechanically cut TVT can
15 release particles in a woman's body?

16 MR. RUMANEK: Object to the form.

17 THE WITNESS: I have seen some documents
18 to that effect, yes.

19 BY MS. WHITE:

20 Q. Do you -- what causes that?

21 MR. RUMANEK: Object to the form.

22 BY MS. WHITE:

23 Q. In your expert opinion?

24 A. So I think that there are probably a
25 variety of things that cause it. I think that the

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1 been done since the 1950s at least that are made
2 from the same material as a polypropylene mesh.
3 They're made from exactly the same material.

4 BY MS. WHITE:

5 Q. Okay. So, again, you're equating a TVT
6 and/or TVT-O polypropylene mid-urethral sling with a
7 polypropylene suture?

8 MR. RUMANEK: Object to the form.

9 Mischaracterizes her testimony.

10 THE WITNESS: No, I'm not.

11 BY MS. WHITE:

12 Q. Okay. I just want to make sure I
13 understand your testimony. We're talking about
14 mechanically cut TVT releasing particles into the
15 body. And your --

16 MR. RUMANEK: Let her ask the question.

17 BY MS. WHITE:

18 Q. And your opinion is there's not a problem
19 with this. Did I understand that part correctly?

20 A. So I think into the body suggests to me
21 that -- I'm not sure where that is. What I would say
22 is that polypropylene material in the vagina is small
23 fragments of this mesh -- this fray that is
24 equivalent to the presence of a suture. It's the
25 same type of material in the same place that a suture

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1 might be placed.
 2 Q. Okay. Have you seen Ethicon documents
 3 that show that the Prolene, which is what the TVT is
 4 made of, Prolene mesh, that the Prolene that's used
 5 in the mechanically cut TVT can degrade?
 6 MR. RUMANEK: Object to the form.
 7 THE WITNESS: I've seen lots of literature
 8 discussing whether or not polypropylene can --
 9 MR. RUMANEK: Hold on. I think she asked
 10 you about --
 11 BY MS. WHITE:
 12 Q. That's not what I asked you.
 13 A. I'm sorry.
 14 Q. Have you seen Ethicon documents that show
 15 that the Prolene that's used in a mechanically cut
 16 TVT can degrade?
 17 MR. RUMANEK: Object to the form.
 18 THE WITNESS: I may have reviewed some of
 19 those here, but, again, for my opinions, I
 20 haven't reviewed those as a way to formulate an
 21 opinion about this.
 22 BY MS. WHITE:
 23 Q. Okay. And, again, your opinions have been
 24 formulated based upon your review of the literature
 25 and your clinical experience, right?

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1 MR. RUMANEK: Object to the form. And the
 2 other things that have been discussed and
 3 mentioned in her report.
 4 THE WITNESS: And my discussions at
 5 national conferences with other professionals,
 6 yes.
 7 BY MS. WHITE:
 8 Q. Okay. So based upon your clinical
 9 experience, what is the leading cause of TVT revision
 10 surgery?
 11 MR. RUMANEK: Object to the form.
 12 BY MS. WHITE:
 13 Q. Again, based upon your clinical
 14 experience.
 15 A. Right. So in my clinical experience, TVT
 16 revision, and I suppose we should pause here to
 17 talking about revision. And maybe, actually, we
 18 should work to define that. So I'll say revision
 19 would mean perhaps tightening or loosening of the
 20 sling or releasing the sling for some issue that's
 21 not due to mesh erosion or some other issue that has
 22 to do with exposure of mesh? Is that a definition
 23 that you would like or is there something else that
 24 you --
 25 Q. It's not, and it's not the question. So

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1 let me -- that's my fault, not yours. All right?
 2 So what -- what is, based upon your
 3 clinical experience, the leading cause of you having
 4 to go in, the times that we have already discussed
 5 this morning, and -- and excise or take out in whole
 6 a TVT product?
 7 MR. RUMANEK: Object to the form.
 8 THE WITNESS: So the leading cause -- of
 9 the surgeries that we've discussed, the leading
 10 cause is the mesh exposure in the vagina.
 11 BY MS. WHITE:
 12 Q. Mesh erosion?
 13 MR. RUMANEK: Object to the form.
 14 THE WITNESS: Sometimes people say that
 15 erosion implies presence in a different organ
 16 such as the bladder and bowel which is
 17 exceedingly rare. And mesh exposure in the
 18 vagina also rare is really what I think is the
 19 leading cause of going back to the operating
 20 room.
 21 BY MS. WHITE:
 22 Q. All right. So let's talk about that in --
 23 for a minute.
 24 Of the -- I think it was the number of
 25 patients that we've previously discussed where you've

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1 either taken the TVT out in whole or in parts, how
 2 many of those patients had mesh erosion?
 3 MR. RUMANEK: Object to the form.
 4 THE WITNESS: So the majority of them have
 5 mesh exposure in the vagina. And I will reserve
 6 those comments to those patients that had
 7 surgery under IV sedation as we discussed
 8 previously. Those were -- those were almost
 9 exclusively exposure in the vagina.
 10 BY MS. WHITE:
 11 Q. Okay. And I think we testified, please
 12 correct me if I'm wrong, four.
 13 A. Okay.
 14 Q. Okay? So when you say the great majority,
 15 what do you mean by that? What number?
 16 A. Three.
 17 Q. Okay.
 18 A. But I'm not -- I guess I'm also talking
 19 about the other categories of TVT. For all
 20 categories of TVT, whether we're talking about the
 21 retropubic procedures, the obturator procedures, as I
 22 think about those in total, all of those are about
 23 mesh exposure, not about any other problem so --
 24 Q. I asked you just about the TVT.
 25 A. Yes, you're right. You're right. So

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<p style="text-align: right;">Page 166</p> <p>1 still, we'll say four.</p> <p>2 Q. Is it three or four?</p> <p>3 MR. RUMANEK: Object to the form.</p> <p>4 THE WITNESS: Right. So if we said four</p> <p>5 in general, we will say three of those were for</p> <p>6 mesh exposure.</p> <p>7 BY MS. WHITE:</p> <p>8 Q. Okay.</p> <p>9 A. Okay.</p> <p>10 Q. What was the other one because of?</p> <p>11 A. Sometimes there's not exposure, but</p> <p>12 there's irritation at the site. The tissues thin.</p> <p>13 So that's sometimes another reason to remove if we</p> <p>14 can't address that in any other way.</p> <p>15 Q. Okay. And you testified earlier you have</p> <p>16 never removed a TVT-O in whole that you know of?</p> <p>17 A. That's right.</p> <p>18 Q. All right. Okay. And I think you've done</p> <p>19 two or three --</p> <p>20 A. Right. All of these numbers that I've</p> <p>21 given you are estimates and so I'm -- you're holding</p> <p>22 me to these firm numbers when I'm adding another</p> <p>23 estimate, and I think the total number we're going to</p> <p>24 have to decide is perhaps give or take a few because</p> <p>25 the first ones were estimates.</p>	<p style="text-align: right;">Page 168</p> <p>1 patient? Why did you like that product?</p> <p>2 MR. RUMANEK: Object to the form.</p> <p>3 THE WITNESS: So I think that there are</p> <p>4 pros to retropubic slings which includes the</p> <p>5 TVT-R. And they are to some degree in contrast</p> <p>6 to other options for patients who have stress</p> <p>7 urinary incontinence.</p> <p>8 But, in general, the TVT-R is -- can be</p> <p>9 done under local anesthetic with IV sedation.</p> <p>10 It's a brief procedure, just focusing on the</p> <p>11 operative -- perioperative advantages. It's a</p> <p>12 safe procedure. It's an effective procedure.</p> <p>13 It's a procedure with limited complications, and</p> <p>14 it's a procedure that is not generally difficult</p> <p>15 to recover from.</p> <p>16 BY MS. WHITE:</p> <p>17 Q. Okay. What are the cons of a TVT</p> <p>18 procedure?</p> <p>19 MR. RUMANEK: Object to the form.</p> <p>20 THE WITNESS: So I think that, in general,</p> <p>21 it is always preferable not to have surgery.</p> <p>22 And that's certainly true of TVT as well as any</p> <p>23 other surgical procedure for urinary</p> <p>24 incontinence. I think that it is -- if you're</p> <p>25 talking about things that are unique to TVT, I</p>
<p style="text-align: right;">Page 167</p> <p>1 Q. Well, you're an expert in this case.</p> <p>2 A. I am.</p> <p>3 Q. And I'm entitled to discover your clinical</p> <p>4 experience.</p> <p>5 A. That's fine.</p> <p>6 Q. And you've already testified your clinical</p> <p>7 experience is the basis, at least in part --</p> <p>8 A. That's right.</p> <p>9 Q. -- of your opinion?</p> <p>10 A. Right.</p> <p>11 Q. So in fairness to me, you know, you've</p> <p>12 testified. I've let you explain your answers as much</p> <p>13 as you want to. So you testified earlier that you've</p> <p>14 never removed a TVT-O in whole?</p> <p>15 A. That's correct.</p> <p>16 Q. And that you've done a revision, meaning</p> <p>17 clipped the fibers, two or three times, right?</p> <p>18 A. So I don't think we used the word</p> <p>19 "revision" previously, but, yes, I've removed fibers</p> <p>20 two or three times, yes, that's right.</p> <p>21 Q. Okay. And was that because there was</p> <p>22 exposure into the vagina?</p> <p>23 A. That's correct.</p> <p>24 Q. Okay. So what -- what are in your opinion</p> <p>25 the pros of the TVT, meaning the TVT-R, for a</p>	<p style="text-align: right;">Page 169</p> <p>1 suspect that the complication rates related to</p> <p>2 mesh are the only specific, unique thing that I</p> <p>3 can think of that is not common to all other</p> <p>4 procedures for urinary incontinence so I guess I</p> <p>5 would have to name that one. But, in general,</p> <p>6 that's the con, and that's a very low risk. So</p> <p>7 it's not much of a con.</p> <p>8 BY MS. WHITE:</p> <p>9 Q. So what about TVT-O? What are the pros of</p> <p>10 the TVT-O?</p> <p>11 MR. RUMANEK: Object to the form.</p> <p>12 THE WITNESS: I would say they're similar.</p> <p>13 BY MS. WHITE:</p> <p>14 Q. What are the cons?</p> <p>15 MR. RUMANEK: Object to the form.</p> <p>16 THE WITNESS: I would say that they're</p> <p>17 similar.</p> <p>18 BY MS. WHITE:</p> <p>19 Q. Similar to the TVT?</p> <p>20 A. That's correct.</p> <p>21 Q. Okay. Have you ever looked at pathology</p> <p>22 from an explanted TVT sling?</p> <p>23 A. I have seen photographs and micrographs of</p> <p>24 those.</p> <p>25 Q. Okay. So we'll get to that.</p>

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1 A. Okay.
 2 Q. But have you ever -- not photographs.
 3 Have you ever seen the actual pathology on a slide
 4 from an explanted TVT sling?
 5 MR. RUMANEK: Object to the form.
 6 THE WITNESS: So pretty rarely are slings
 7 or anything ever looked at with my eyes to the
 8 microscope.
 9 BY MS. WHITE:
 10 Q. Yes, that's what I'm --
 11 A. I think putting my eyes to the microscope
 12 or putting anyone's eyes to the microscope is not a
 13 common way to look at pathology per se. I think most
 14 things are actually projected on screen. But, no,
 15 I've never looked through a microscope to explanted
 16 mesh.
 17 MR. RUMANEK: Make sure to keep your voice
 18 up.
 19 THE WITNESS: I'm sorry. I might need
 20 a --
 21 BY MS. WHITE:
 22 Q. In those times where --
 23 MR. RUMANEK: Hold on. You need to take
 24 like a five-minute break?
 25 THE WITNESS: I need to get up and get a

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1 BY MS. WHITE:
 2 Q. So when was the last time you looked at a
 3 histopathology slide involving explanted Prolene
 4 mesh?
 5 MR. RUMANEK: Object to the form.
 6 THE WITNESS: You mean when was the last
 7 time I looked at an explanted pathology slide
 8 under the microscope?
 9 BY MS. WHITE:
 10 Q. Yes, ma'am.
 11 A. I think, as I mentioned previously, I
 12 don't believe I've ever actually looked at that under
 13 a microscope, physically.
 14 Q. How many histopathology slides involving
 15 an explant mechanical cut TVT sling have you looked
 16 at?
 17 MR. RUMANEK: Object to the form.
 18 THE WITNESS: As I said previously, I have
 19 not looked at them under the microscope.
 20 BY MS. WHITE:
 21 Q. How many histopathology slides involving
 22 an explanted laser cut TVT sling have you looked at?
 23 MR. RUMANEK: Object to the form.
 24 THE WITNESS: I have not looked at them
 25 through the microscope.

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1 glass of water.
 2 MS. WHITE: Oh, sure. Let's take a break.
 3 I'm sorry.
 4 (A recess transpired from 2:19 p.m. until
 5 2:22 p.m.)
 6 BY MS. WHITE:
 7 Q. In those times where you've removed mesh
 8 from women, specifically TVT, did you request any
 9 particular analysis of the explanted mesh?
 10 A. No, I did not. I routinely send it for
 11 macroscopic evaluation, just to basically affirm that
 12 I've identified and removed mesh.
 13 Q. Do you know what a macrophage is?
 14 A. Yes.
 15 Q. What is a macrophage?
 16 A. It's a cell of inflammation and healing.
 17 It's part of the immune system.
 18 Q. And do you know how to identify a
 19 macrophage on a pathology slide?
 20 A. I do.
 21 Q. And did you learn that during your
 22 pathology internship?
 23 A. Uh-huh.
 24 MR. RUMANEK: You got to say yes.
 25 THE WITNESS: Oh, I'm sorry. Yes, I did.

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1 BY MS. WHITE:
 2 Q. How many histopathology slides involving
 3 an explanted TVT-O sling have you looked at?
 4 MR. RUMANEK: Object to the form.
 5 THE WITNESS: I have not looked at them
 6 under the microscope.
 7 BY MS. WHITE:
 8 Q. Have you ever made a histopathologic slide
 9 related to a polypropylene mesh after removal from a
 10 woman's body?
 11 MR. RUMANEK: Object to the form.
 12 THE WITNESS: The making of a
 13 histopathologic slide is not something that's
 14 done by a pathologist or a gynecologist. It's
 15 an automated function that involves wax and a
 16 special machine, and it's usually done as a
 17 process in a pathology lab. So no, I have not.
 18 BY MS. WHITE:
 19 Q. Do you know how to make a slide from a
 20 mesh explant?
 21 A. I know how to make a pathology slide.
 22 Q. Can you explain to process to me?
 23 A. Sure.
 24 Q. Go ahead.
 25 A. All right. There are variations in the

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1 process depending upon the materials. But an H&E
 2 pathology slide involves first fixing the specimen in
 3 formalin and then processing it through a machine
 4 that embeds the processing tissue into a piece that's
 5 large enough to fit onto -- small enough to fit onto
 6 a pathology slide. And placing that in paraffin.
 7 And then slicing it onto a microtome so it's placed
 8 onto your slide. And then putting a cap on top of it
 9 to protect it.
 10 Q. Okay. That's it?
 11 A. For an H&E slide, that's correct. There
 12 are different bits of processing, and I understand
 13 there's actually a lot of discussion in this area for
 14 creating a slide depending upon how you want to clean
 15 the mesh, and those are not processes that I have
 16 experience with.
 17 Q. Do you believe in the value of
 18 histopathology in relation to mesh?
 19 MR. RUMANEK: Object to the form of the
 20 question.
 21 BY MS. WHITE:
 22 Q. Meaning what value is it to you as a
 23 physician treating women with polypropylene mesh
 24 products? Can it tell you anything about what went
 25 wrong?

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1 MR. RUMANEK: Object to the form of the
 2 question.
 3 THE WITNESS: So there are a variety of
 4 reasons to look at something from pathology.
 5 And there are a variety of ways to look at
 6 something under many different types of
 7 microscopes with many different types of stains
 8 and evaluations and cleaning. Within that, in
 9 my experience, I haven't performed those for
 10 mesh erosions nor have I seen an indication to
 11 do so.
 12 BY MS. WHITE:
 13 Q. Can it assist you in determining whether
 14 the TVT or TVT-O degraded inside a patient's body?
 15 MR. RUMANEK: Object to the form.
 16 THE WITNESS: I'm sorry? I didn't
 17 understand the first part of your question.
 18 BY MS. WHITE:
 19 Q. So can histopathology assist you in
 20 determining whether a TVT or a TVT-O degraded inside
 21 your patient's body?
 22 MR. RUMANEK: Object to the form.
 23 THE WITNESS: I'm not sure that there's
 24 any clear correlation between clinical findings
 25 and any even intimation of degradation. I think

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1 that degradation is certainly something that
 2 the -- is a discussion in the medical literature
 3 in terms of what happens to polypropylene, and
 4 I've read a great deal of literature on both
 5 sides of that, but I don't have any indication
 6 that whatever degradation may or may not happen
 7 has any clinical impact.
 8 BY MS. WHITE:
 9 Q. Okay. Do you believe that a patient can
 10 have a foreign body reaction to polypropylene mesh?
 11 A. So foreign body reactions, there are lots
 12 of different meanings to that. I think, you know,
 13 within medicine, there are lots of different kinds of
 14 implants. I mean, ranging from hip replacements to
 15 breast implants to mesh. And every time you place
 16 something, even a suture that stays, there is a
 17 reaction by the body because there's material there
 18 that's foreign. I'm not sure that implies pathology
 19 as much as it does the normal way in which the body
 20 responds.
 21 Q. Give me your definition of foreign body
 22 reaction.
 23 A. I think it's an inflammatory initial
 24 process that pertains to the body identification and
 25 processing of material that's identified by the body

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1 as not the body.
 2 Q. Okay. Well, can a patient receiving a TVT
 3 have an inflammatory reaction?
 4 A. I think inflammation is a normal response
 5 to any kind of surgery with or without an implant.
 6 Q. Okay.
 7 A. In other words -- I'll just add this in --
 8 if I make an incision and it heals, inflammation is
 9 part of how the body heals.
 10 Q. Okay. Have you ever authored or published
 11 any peer-reviewed articles on degradation of
 12 polypropylene mesh?
 13 A. I have not.
 14 Q. Have you ever spoke on that issue at any
 15 conference?
 16 A. I have not.
 17 Q. Have you ever at any conference lectured,
 18 spoke about, presented posters on the use of
 19 histopathology of mesh in making clinical
 20 determinations for your patients?
 21 MR. RUMANEK: Object to the form.
 22 THE WITNESS: I don't think I have, no.
 23 BY MS. WHITE:
 24 Q. And are you holding yourself out to be an
 25 expert in pathology?

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1 MR. RUMANEK: Object to the form.
 2 THE WITNESS: I'm an expert in pathology
 3 as it pertains to the clinical care of my
 4 patients.
 5 BY MS. WHITE:
 6 Q. What does that mean?
 7 A. What that means is that I understand how
 8 pathologic findings as reported to me or as found
 9 under a microscope or in gross description impact the
 10 care of my patients. I'm able to make clinical
 11 decisions accordingly.
 12 Q. How have you used pathology in making
 13 decisions about the clinical care of your mesh
 14 patients?
 15 A. So most of my experience with mesh
 16 patients has been removing mesh from this exposure
 17 that we've discussed. Sometimes there is atrophy
 18 meaning thinning of the vaginal tissue that results
 19 as a process after menopause. And that is something
 20 that is certainly something that I can find on
 21 pathology that would prompt me to provide vaginal
 22 estrogen to stimulate tissue growth there. That's
 23 appropriate. Having said that, I think that
 24 microscopic pathology is rarely useful in the
 25 treatment of mesh patients.

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1 response is, in general, a typical body response
 2 to the presence of something that's not supposed
 3 to be there. So I'm not sure it implies
 4 pathology. And I'm not sure it has any special
 5 significance when removing mesh.
 6 BY MS. WHITE:
 7 Q. Okay. So in your clinical experience,
 8 what types of complications have your patients
 9 experienced with TVT? Let's start with just TVT
 10 based upon your experience with the product since
 11 your fellowship, what types of complications have
 12 your patients experienced?
 13 A. My patients have experienced, as we've
 14 discussed, mesh exposure in the vagina. They have
 15 experienced urinary retention. And I would say
 16 "they," I don't mean every single one of them. I
 17 mean a select few. They've experienced retropubic
 18 hematoma.
 19 And I guess I want to emphasize again that
 20 I do mostly TVT, but none of these complications are
 21 necessarily unique to TVT. I could say the same if
 22 you asked me about my patients who had surgical
 23 treatment for urinary incontinence.
 24 Q. But, Doctor, I'm asking you about TVT?
 25 A. Right.

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1 Q. Keep your voice up. I can barely hear
 2 you.
 3 A. The air conditioner just came on, didn't
 4 it? Okay.
 5 Q. So after you remove mesh from your
 6 patients, and I know it's only happened five to seven
 7 times.
 8 A. Five to seven times in the patients that I
 9 know had TVT removed?
 10 Q. That's right.
 11 A. That's right.
 12 Q. TVT or TVT-O?
 13 A. For that I know had TVT removed, that's
 14 right.
 15 Q. Do you check to see if there has been a
 16 foreign body reaction in that patient to the mesh?
 17 MR. RUMANEK: Object to the form.
 18 THE WITNESS: No, I don't.
 19 BY MS. WHITE:
 20 Q. Do you believe you can see the foreign
 21 body response on a histological slide?
 22 MR. RUMANEK: Object to the form.
 23 THE WITNESS: So I think it doesn't matter
 24 whether there's a foreign body response. As we
 25 have discussed, I think that foreign body

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1 Q. So, please, my question was --
 2 A. Do you want me to talk about things that
 3 are unique to TVT or do you want me to talk about all
 4 sorts of procedures that occur after treatment for
 5 urinary incontinence?
 6 Q. No, I just want you to answer my question.
 7 In your clinical experience, what types of
 8 complications have your patients experienced with
 9 TVT?
 10 A. Okay. So I think that answers my
 11 question -- your question.
 12 Q. Mesh exposure in the vagina, urinary
 13 retention, and retropubic hematoma?
 14 A. And the one further might be voiding
 15 dysfunction, urinary urgency and frequency.
 16 Q. In your clinical experience, what types of
 17 complications have your patients experienced with
 18 TVT-O?
 19 A. I think all of those things I just
 20 mentioned. So urinary retention, voiding
 21 dysfunction. I've not had a retropubic hematoma with
 22 the TVT-O. And transient thigh pain.
 23 Q. Transient thigh pain?
 24 A. Yes.
 25 Q. Have you ever had any of your patients

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1 experience ongoing or chronic thigh pain?
 2 A. So if by chronic, you mean longer than a
 3 typical six- or twelve-week post-operative period,
 4 no, I have not.
 5 Q. Have you ever had a patient have a thigh
 6 abscess?
 7 A. No.
 8 Q. Okay. Would you agree with me that TVT
 9 has been associated with the following complications;
 10 and this is either based on your clinical experience
 11 or your review of all the literature you brought here
 12 with you today. Okay? So I'm going to go down the
 13 list.
 14 A. Okay.
 15 Q. Mesh erosion into the urethra?
 16 A. Yes.
 17 Q. Mesh erosion into the vagina?
 18 A. Exposure, as we talked about, yes.
 19 Q. Pain a year or more after surgery meaning
 20 chronic pain with TVT?
 21 MR. RUMANEK: Object to the form. Object
 22 to the form.
 23 THE WITNESS: I think that's true and
 24 similar to other procedures for urinary
 25 incontinence. The other two you mentioned are

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1 unique to TVT. Or TV- -- or to mesh slings.
 2 BY MS. WHITE:
 3 Q. Do you agree with me that there's a
 4 difference between post-operative pain and chronic
 5 pain?
 6 A. In general, yes, I do.
 7 Q. Okay. How do you distinguish between the
 8 two?
 9 A. So every patient is different. And by
 10 that, I mean, I think that it's unreasonable to
 11 expect that the rate of resolution of pain after
 12 surgery occurs at the same rate for every single
 13 patient. But, in general, I would say that chronic
 14 pain could probably be expected to be diagnosed after
 15 about six months postoperatively. I think that's not
 16 a firm number. There are certainly patients who come
 17 into surgery with either a predisposition towards
 18 pain or existing pain that can be exacerbated, and
 19 those things are harder to address.
 20 Q. In your opinion, can chronic pain from TVT
 21 develop more than six months after implantation?
 22 MR. RUMANEK: Object to the form.
 23 THE WITNESS: No, not if it wasn't present
 24 before six months.
 25

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1 BY MS. WHITE:
 2 Q. And is that opinion based upon anything
 3 you have found in the medical literature?
 4 A. I think that opinion is based upon
 5 basically the challenge of attributing. In other
 6 words, after six months, especially if there's been
 7 no pain, causality there I think is really
 8 challenging to establish.
 9 Q. So that's the basis for your opinion?
 10 A. That's right.
 11 Q. You're not citing something in the medical
 12 literature?
 13 A. What I'm saying is that I don't think I
 14 can find a solid study that would say that research
 15 has shown that -- that there is or is not chronic
 16 pain that occurs after any surgical procedure after
 17 six months. It's just not possible to directly
 18 attribute those things in a way that is consistent.
 19 Q. Okay. So would you agree with me that TVT
 20 has been associated with painful sex?
 21 MR. RUMANEK: Object to the form.
 22 THE WITNESS: Like other surgical
 23 procedures for urinary incontinence, TVT has
 24 been associated with painful sex.
 25

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1 BY MS. WHITE:
 2 Q. Yeah, and I'm not asking about other
 3 procedures.
 4 A. I understand.
 5 Q. Just TVT. Urinary retention?
 6 A. Yes, as I said.
 7 Q. Death?
 8 A. I think there have been case reports of
 9 death following surgical procedures with TVT.
 10 Q. Do you know of or have -- do you know of
 11 either in the literature or have you experienced
 12 death after a Burch procedure?
 13 MR. RUMANEK: Object to the form.
 14 THE WITNESS: I'm not familiar with case
 15 reports that would identify death after Burch
 16 procedure and I have not experienced death after
 17 a Burch procedure.
 18 BY MS. WHITE:
 19 Q. And what about in a pubovaginal sling?
 20 MR. RUMANEK: Objection.
 21 THE WITNESS: I'm aware of case reports.
 22 I have not reviewed them myself and -- not
 23 personally at all.
 24 BY MS. WHITE:
 25 Q. I couldn't hear you. You are aware or not

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<p>1 aware?</p> <p>2 A. I said I am aware of reports. I have</p> <p>3 spoken with individuals who would verify that.</p> <p>4 Q. And who are those individuals? Death</p> <p>5 after pubovaginal sling?</p> <p>6 A. Eman Elkadry.</p> <p>7 Q. And how do you spell that person's last</p> <p>8 name?</p> <p>9 A. E-L-K-A-D-R-Y. And I'm not saying that</p> <p>10 she personally had a death associated with a sling.</p> <p>11 Q. Would you agree with me that hemorrhage or</p> <p>12 hematoma has been associated with TVT sling?</p> <p>13 A. Like other retropubic procedures, yes.</p> <p>14 Q. And what about UTIs? Would you agree with</p> <p>15 me that the TVT has been associated with UTIs?</p> <p>16 MR. RUMANEK: Object to the form.</p> <p>17 THE WITNESS: Like other surgical</p> <p>18 procedures for urinary incontinence, yes, it</p> <p>19 has.</p> <p>20 BY MS. WHITE:</p> <p>21 Q. And what about overactive bladder?</p> <p>22 MR. RUMANEK: Object to the form.</p> <p>23 THE WITNESS: Like other procedures</p> <p>24 associated with -- for treatment of stress</p> <p>25 urinary incontinence, yes, it has.</p>	<p>1 threatening greater than how many weeks, six</p> <p>2 weeks did you say again? And I would say the</p> <p>3 answer to that is no. Is there formulation of</p> <p>4 granulation tissue which is sometimes a part of</p> <p>5 difficulty healing that causes blood to be</p> <p>6 present on a napkin afterwards, there is that</p> <p>7 finding in all kinds of post-operative</p> <p>8 procedures with stitches in the vagina including</p> <p>9 TVT.</p> <p>10 BY MS. WHITE:</p> <p>11 Q. What about reoccurrence of stress urinary</p> <p>12 incontinence after implantation with the TVT?</p> <p>13 MR. RUMANEK: Object to the form.</p> <p>14 THE WITNESS: TVT has about 80 to</p> <p>15 90 percent success rate. And the failure rate</p> <p>16 over time, that's very limited based on</p> <p>17 long-term longitudinal studies, so yes, there's</p> <p>18 some associated with recurrence.</p> <p>19 BY MS. WHITE:</p> <p>20 Q. What is the basis for your opinion that</p> <p>21 the TVT has 80 to 90 percent success rate?</p> <p>22 A. Cochrane review that summarizes the vast</p> <p>23 majority of randomized control trials that were</p> <p>24 acceptable -- inclusion criteria for Cochrane review.</p> <p>25 Q. So Cochrane review. Which specific one</p>
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<p>1 BY MS. WHITE:</p> <p>2 Q. And what about bleeding issues?</p> <p>3 MR. RUMANEK: Object to the form.</p> <p>4 THE WITNESS: I'm not sure what bleeding</p> <p>5 issues mean. That's not really a term I know</p> <p>6 about.</p> <p>7 BY MS. WHITE:</p> <p>8 Q. Okay. Bleeding issues would mean that a</p> <p>9 woman bleeds after implantation with the TVT.</p> <p>10 MR. RUMANEK: Object to the form.</p> <p>11 THE WITNESS: So I'm going to have to</p> <p>12 explore that a little bit. If you mean</p> <p>13 immediate post-operative period surgical</p> <p>14 bleeding, then like other surgical procedures,</p> <p>15 there is a possibility of immediate</p> <p>16 post-operative surgical bleeding.</p> <p>17 BY MS. WHITE:</p> <p>18 Q. Are you aware of in the literature or</p> <p>19 based on your clinical experience a woman bleeding</p> <p>20 more than six weeks after implantation of the TVT?</p> <p>21 MR. RUMANEK: Object to the form.</p> <p>22 THE WITNESS: So when -- when a surgeon</p> <p>23 hears the word "bleeding," what that evokes in</p> <p>24 my mind is volumes of blood coming out of the</p> <p>25 vagina, in an uncontrollable way that's life</p>	<p>1 and what year?</p> <p>2 A. I believe it's -- let me look here. Let</p> <p>3 me look at my reference in my expert report. Sorry.</p> <p>4 I'm having a little -- the expert report is right</p> <p>5 here, isn't it? That's probably the best place to</p> <p>6 look.</p> <p>7 MR. RUMANEK: Page 16 is the --</p> <p>8 THE WITNESS: Thank you.</p> <p>9 MR. RUMANEK: There's the efficacy</p> <p>10 section.</p> <p>11 MS. WHITE: I object to you telling her --</p> <p>12 please don't.</p> <p>13 MR. RUMANEK: I'm sorry.</p> <p>14 THE WITNESS: There it is. It's number</p> <p>15 47. Ford. 2015.</p> <p>16 MS. WHITE: Ford 2015.</p> <p>17 THE WITNESS: Let me emphasize that's one</p> <p>18 of several systematic reviews and so I think the</p> <p>19 range of success is probably somewhat variable</p> <p>20 in there, but that's one of the -- one of the</p> <p>21 reviews that's a reliable good summary of a lot</p> <p>22 of level 1 evidence.</p> <p>23 BY MS. WHITE:</p> <p>24 Q. What's another good level 1 evidence that</p> <p>25 you rely upon for your opinions that form the basis</p>

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1 of your report? Can you name one or two?
 2 MR. RUMANEK: Object to the form.
 3 THE WITNESS: I can review the listing and
 4 let you know.
 5 BY MS. WHITE:
 6 Q. Just off the top of your head, I mean,
 7 what do you rely upon, Doctor, in forming your
 8 opinion?
 9 A. I rely on Cochrane reviews, and I rely on
 10 other summaries and reviews of level 1 evidence. But
 11 I have to say that I'm not very good with names so
 12 that's why I had to look up Ford. I mean, that's the
 13 very common one. That's an SGS systematic review
 14 that's fairly recent, and the names are just not
 15 things I access off the top of my head.
 16 Q. Okay. Vaginal discharge, is that
 17 associated with the TVT device?
 18 MR. RUMANEK: Object to the form.
 19 THE WITNESS: I would say the answer there
 20 is rarely and not consistently at all, and
 21 that's based on my clinical experience because
 22 I'm not really aware of systematic reviews that
 23 describe vaginal discharge as a separate item.
 24 BY MS. WHITE:
 25 Q. What about permanent nerve damage? Has

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1 BY MS. WHITE:
 2 Q. I take the groin to mean the vaginal area
 3 and the leg to be more of the upper thigh.
 4 A. So I would say the medial thigh as it's
 5 associated with the groin, yes. And that's a nerve
 6 distribution question.
 7 Q. Is thigh abscess an associated
 8 complication with the TVT-O?
 9 MR. RUMANEK: Object to the form.
 10 THE WITNESS: I believe thigh abscess is a
 11 described complication of some TVT-Os, yes.
 12 BY MS. WHITE:
 13 Q. Well, have you seen it in the literature?
 14 A. Yes.
 15 Q. Have you seen it in level 1?
 16 A. I have.
 17 MR. RUMANEK: Object to the form.
 18 BY MS. WHITE:
 19 Q. And for the jury, explain, what is level 1
 20 evidence in the medical community?
 21 A. So level 1 evidence is a randomized
 22 controlled trial. What that means is that there is a
 23 review -- there's a research study in which patients
 24 are randomized. And by that, I mean they're not
 25 selected based on any particular patient criteria.

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1 that been a complication associated with the TVT?
 2 MR. RUMANEK: Object to the form.
 3 THE WITNESS: Like other procedures for
 4 stress urinary incontinence, permanent nerve
 5 damage is a rare, but known complication of
 6 those procedures.
 7 BY MS. WHITE:
 8 Q. Is that a yes?
 9 A. That's a yes.
 10 Q. Acute or chronic pain in the groin, has
 11 that been an associated complication of the TVT-O?
 12 MR. RUMANEK: Object to the form.
 13 THE WITNESS: Yes.
 14 BY MS. WHITE:
 15 Q. Acute or chronic pain in the leg, is that
 16 an associated complication with the TVT-O?
 17 MR. RUMANEK: Object to the form.
 18 THE WITNESS: I think the groin and the
 19 leg are the same thing.
 20 BY MS. WHITE:
 21 Q. Is that a yes?
 22 MR. RUMANEK: You can ask her to clarify.
 23 THE WITNESS: Can you clarify? The toe,
 24 the foot, the thigh? There's a lots of parts of
 25 the leg.

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1 In other words, they become part of the study due to
 2 a set of criteria. And once they become -- once they
 3 meet those requirements, they're randomly placed in
 4 either one arm is what it's called or the other arm
 5 of the study.
 6 And, usually, those arms do different
 7 things. There are two kinds of those things. One of
 8 which is that in a randomized controlled trial you
 9 can be -- having one thing done to you or the other.
 10 And another would be a randomized controlled trial in
 11 which you have one thing done to you or a placebo
 12 thing so that you're not having really anything to do
 13 with you on the other side. Those are more common in
 14 drug trials.
 15 Q. In your opinion, what randomized
 16 controlled trial do you rely upon the most when
 17 counseling patients on whether or not to have or not
 18 have a TVT product implanted for stress urinary
 19 incontinence?
 20 MR. RUMANEK: Object to the form.
 21 THE WITNESS: So I would say that with
 22 regard to slings in general and particularly
 23 TVTs, there is a preponderance of evidence such
 24 that individual randomized control trials aren't
 25 even things that I rely upon anymore. I think

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1 most of the data that I choose to look at is
 2 sort of an even higher summary of those trials
 3 such that a systematic review which compiles
 4 information from many randomized control trials
 5 is my better choice for evidence because it
 6 involves more patients.
 7 BY MS. WHITE:
 8 Q. Okay. I want to talk to you a little bit
 9 about the Burch procedure. And, Doctor, help me with
 10 something. Is a Burch colosuspension [sic] and a
 11 Burch urethropexy the same thing?
 12 A. So the Burch colposuspension?
 13 Q. Yes, colposuspension.
 14 A. Yes. There are lots of interchangeable
 15 terms, and, mostly, we just say "Burch."
 16 Q. Okay. Because I saw in your report, it
 17 looks like to me it's used interchangeably --
 18 A. That's right.
 19 Q. -- and I wanted to clarify that. Okay.
 20 How many of these procedures have you performed in
 21 your career?
 22 A. So we will draw the line at my career when
 23 I began practicing independently after my training?
 24 Q. Sure, that's fine. So we're talking
 25 2006-present.

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1 options for initial treatment of stress urinary
 2 incontinence. I think probably less than
 3 5 percent.
 4 BY MS. WHITE:
 5 Q. Right. Because you've only did 20 in your
 6 career?
 7 A. Right.
 8 Q. Right?
 9 A. That's right.
 10 Q. What are the complications you have
 11 experienced in your clinical practice with a Burch
 12 procedure?
 13 A. So there is urinary retention and voiding
 14 dysfunction. There is erosion of sutures through
 15 either the vaginal wall or the abdomen. The ones
 16 I've seen actually are just in the vaginal wall.
 17 MR. RUMANNEK: Hold on for a minute. I'm
 18 not sure she was finished.
 19 THE WITNESS: I'm not finished. I'm not
 20 finished.
 21 There's hematoma which occurs behind the
 22 pubic bone.
 23 BY MS. WHITE:
 24 Q. And, again, I'm asking you in your
 25 clinical experience.

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1 A. That's right. I would say 20.
 2 Q. When was the last time you performed one
 3 abdominally?
 4 A. Abdominally?
 5 Q. Yeah.
 6 A. 2009 or 2010. I don't do a lot of
 7 abdominal surgery and so the bulk of my work there is
 8 laparoscopic.
 9 Q. When was the last time you performed one
 10 laparoscopically?
 11 A. Three months ago.
 12 Q. So it was here at UNC?
 13 A. That's correct.
 14 Q. And why did that particular patient have a
 15 laparoscopic Burch colposuspension rather than a mesh
 16 implant?
 17 A. It was her preference after counseling.
 18 Q. How many of your patients after counseling
 19 choose either a Burch or a pubovaginal sling rather
 20 than a mesh implant for treatment of stress urinary
 21 incontinence?
 22 MR. RUMANNEK: Object to the form.
 23 THE WITNESS: So I think if we look at the
 24 patients who go to surgery because a lot of
 25 patients after counseling choose nonsurgical

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1 A. That's right.
 2 Q. The 20 that you've performed?
 3 A. That's right.
 4 Q. Okay.
 5 A. And there's failure of the surgery to work
 6 in the long term.
 7 Q. So you've performed 20. What percentage
 8 of the Burch procedure have you had complications?
 9 A. About 5 percent.
 10 Q. 5 percent.
 11 A. Not all of those are unique to one
 12 patient. So it's not that -- it's not that one
 13 person had one complication and another person had
 14 another complication. Some of those occur in the
 15 same patient.
 16 Q. Okay. And -- and how do you know you've
 17 performed 20 Burch procedures over the course of your
 18 career?
 19 MR. RUMANNEK: Object to the form.
 20 THE WITNESS: I think, in general, because
 21 they're so uncommon that it's pretty much easy
 22 for me to recall.
 23 BY MS. WHITE:
 24 Q. Okay. So in this estimated 5 percent
 25 complication, was any of that your fault, surgeon

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1 error?

2 MR. RUMANEK: Object to the form.

3 THE WITNESS: I think it's hard to know.

4 I'm not sure that all complications are a result

5 of surgeon error. I think that many

6 complications are a combination of unfortunate

7 events. Some of them have to do with patient

8 predisposition. Some of them have to do in my

9 understanding with aberrant anatomy. That's

10 been my experience in a particular patient who

11 experienced a lot of problems.

12 BY MS. WHITE:

13 Q. Tell me about this one patient that you

14 had because you clearly remember her.

15 A. I do.

16 Q. So you had one patient who had multiple

17 problems?

18 A. Uh-huh.

19 Q. So what all multiple problems did this one

20 patient have?

21 A. So to my recollection, she had a hematoma,

22 retropubic hematoma. That comes from large vessels

23 that are behind the pubic bone that bleed. Sometimes

24 those vessels can become very large. I mean, they're

25 like varicosities behind the pubic bone.

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1 And urinary retention, although not

2 prolonged. So for a week or so, I think. It's been

3 a little while since I thought about this patient.

4 And urgency and frequency.

5 Q. So if you've done 20 procedures and you've

6 had 5 percent with your patients having problems,

7 essentially, you've had one patient have a problem

8 with a Burch procedure?

9 A. That's right. She had a terrible time.

10 Q. All right. I gotcha. The patient -- go

11 ahead.

12 A. That's okay. I think that's right.

13 Q. The patient where you performed a

14 laparoscopic procedure three months ago, how is she

15 doing?

16 A. She's doing just fine. She needed a

17 catheter for about ten days afterwards which is not

18 uncommon in my experience with patients. It takes

19 them a little bit longer in my experience to not

20 require catheterization. Most patients who have a

21 sling, for example, are able to go home on the same

22 day or the day after without any form of

23 catheterization, but the Burch patients typically

24 take a little bit longer in my experience.

25 Q. Okay. So I just want to make sure I

Page 200

1 understand. The issues that you've seen with a Burch

2 in your own clinical experience, that's been urinary

3 retention?

4 A. Uh-huh.

5 Q. Erosion of sutures? That's what you said?

6 A. Yeah.

7 Q. So this patient had erosion of sutures?

8 A. She had a suture that was visible in the

9 vagina. The sutures are taken in the vagina as part

10 of the surgery.

11 Q. She had a hematoma?

12 A. She did.

13 Q. And voiding dysfunction which I think was

14 the urinary retention?

15 A. Urgency and frequency.

16 Q. Urgency -- okay. Have you ever had a

17 Burch procedure patient have painful sex after the

18 Burch procedure?

19 MR. RUMANEK: Object to the form.

20 THE WITNESS: Not that I know of.

21 BY MS. WHITE:

22 Q. Erosion other than I guess you -- erosion

23 of the suture into this one lady's --

24 A. Those are Gore-Tex sutures which are

25 permanent sutures that we use, placed in the

Page 201

1 retropubic space which is essentially the same space

2 as a sling would span.

3 Q. Okay. What kind of sutures do you use

4 these days? Is it polypropylene or Gore-Tex?

5 MR. RUMANEK: Object to the form.

6 THE WITNESS: For what?

7 BY MS. WHITE:

8 Q. When -- for like a Burch procedure?

9 A. Gore-Tex sutures.

10 Q. Gore-Tex?

11 A. Uh-huh.

12 Q. Why don't you use polypropylene suture?

13 A. So a little bit of suture choice depends

14 upon the approach. When you do a laparoscopic Burch

15 procedure, so my experience and training and the

16 availability of a long enough suture to tie a

17 laparoscopic knot which requires using a device to

18 place it through the laparoscopic needle driver and

19 down into the retropubic space makes Gore-Tex a

20 preferred suture for that type of procedure.

21 Q. Okay. And I think based upon your

22 testimony, you've never had one of your Burch

23 patients die, right?

24 A. I have not.

25 Q. Okay. How many pubovaginal slings,

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Page 202

1 meaning the autologous fascial sling, have you
 2 performed in your career since 2006?
 3 A. Probably 12.
 4 Q. When was the last time you performed one?
 5 A. About a year and a half ago.
 6 Q. Was it here at UNC?
 7 A. No.
 8 Q. Mass General?
 9 A. Yes.
 10 Q. Okay. And why did this patient have a
 11 pubovaginal sling rather than a mesh implant?
 12 A. So I'm not sure I recall that specific
 13 patient, indications for. I mean, I think there are
 14 a variety of indications that I would use for a
 15 pubovaginal sling. Some of them are, again, patient
 16 preference if that's what they choose.
 17 On some occasions, there is some need to
 18 place the urethra under a little more tension than a
 19 tension-free sling would allow. For example, a --
 20 this may have actually been the last one I did. I
 21 had a patient who had had pelvic radiation for a
 22 rectal cancer so that damages the tissue around the
 23 urethra to the extent that the urethra becomes what's
 24 known as a lead pipe urethra. In other words, it's
 25 stuck open.

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1 And so in those kinds of circumstances,
 2 you want to put some tension on the urethra in order
 3 to close it a little bit. So in that circumstance,
 4 since these mesh slings need no tension, a rectus
 5 fascia sling is a better choice.
 6 Q. Okay.
 7 A. But, also, those slings are essentially
 8 equivalent, with the exception of symptomatic
 9 results. And so it's not a wrong choice for a
 10 patient at any point to have that choice of a sling.
 11 It's just not common.
 12 Q. Have you -- in the 12 autologous fascia
 13 sling procedures you've performed, have you ever had
 14 a patient have suture erosion?
 15 A. No, although I know it's possible.
 16 Q. Have you ever had one of those patients
 17 have voiding dysfunction?
 18 A. So when you place a sling under tension
 19 and at the bladder neck, you would anticipate that
 20 there's possibly some voiding dysfunction. So while
 21 I couldn't give you an actual number, yes, I've had
 22 patients who have had voiding dysfunction.
 23 Q. How many out of the 12?
 24 A. Six.
 25 Q. 50 percent?

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1 A. So, again, this is a select patient
 2 population, and I've described to you an example of
 3 patients that I would provide the sling for. So they
 4 are sort of a unique group. And it wouldn't surprise
 5 me nor would it be unexpected to have that kind of
 6 dysfunction.
 7 Q. Is it -- is part of it your inexperience
 8 doing this procedure that caused 50 percent of your
 9 patient population to have voiding dysfunction?
 10 MR. RUMANEK: Object to the form.
 11 Mischaracterizes her testimony.
 12 THE WITNESS: I would say it's actually
 13 because of the unique patient population in
 14 which I perform the slings.
 15 BY MS. WHITE:
 16 Q. So is this voiding dysfunction that you're
 17 talking about, is this something that's transient on
 18 or are you saying 50 percent of your patient
 19 population after this procedure went on to have
 20 voiding dysfunction? Meaning something that stayed
 21 with them forever?
 22 A. So many patients for whom a pubovaginal
 23 sling is placed under some tension, which is
 24 intentional, have voiding dysfunction, and some of
 25 them have that resolve over time. It's a longer

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1 period of time than sometimes the immediate
 2 post-operative period. But in addition, sometimes
 3 there's an expectation that physical therapy will be
 4 used to adjust the function of the sling.
 5 But, you know, I think, this is in some
 6 ways, again, entirely different patient population,
 7 entirely different set of expectations. It's pretty
 8 uncommon even in that number that I gave you for me
 9 to do this for someone who has typical stress
 10 incontinence.
 11 Q. Okay. Who in your opinion is the ideal
 12 candidate for a TVT?
 13 A. A woman who has leaking with coughing and
 14 sneezing, who has no evidence of urinary retention
 15 prior to surgery. And that's an isolated sling,
 16 right? So who has in my practice exhausted or at
 17 least declined nonsurgical options for treatment.
 18 Q. You've actually been interviewed about
 19 what you think the ideal candidate is for TVT.
 20 A. Okay.
 21 Q. Do you recall that?
 22 A. I think you'll have to give me more
 23 specifics about that. I talk about this often.
 24 Q. So we'll talk about it more. Would -- do
 25 you think that or have you stated in the past that

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1 another candidate would be someone who is not
 2 sexually active?
 3 A. For a retropubic sling?
 4 Q. Yeah, for TVT?
 5 A. I couldn't say with some certainty. I
 6 mean, you're going to show me this document in a
 7 moment, but I would expect that I didn't say that
 8 about a retropubic sling.
 9 Q. Okay. Any -- anything else? And I could
 10 be mistaken. We'll talk about it.
 11 MS. WHITE: Let's go ahead and mark that.
 12 (Pulliam 8 was marked for identification.)
 13 BY MS. WHITE:
 14 Q. I'm handing you what we have marked as
 15 Exhibit 8. Here, Eric.
 16 Have you seen Exhibit 8 before?
 17 A. I have.
 18 Q. Okay. Do you remember giving this
 19 interview?
 20 A. I know Rachel Zimmerman, yes, and I
 21 remember giving this interview.
 22 Q. And how do you know her?
 23 A. She contacted me. She works for National
 24 Public Radio in Boston.
 25 Q. Okay. So how many times have you declined

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1 stress urinary incontinence.
 2 Q. Okay.
 3 A. And I do think that it was probably
 4 developed, the vaginal mesh procedures, as an
 5 alternative to abdominal procedures. There are lots
 6 of reasons for that. But I think, in general, that
 7 is something that I would stand by with regard to
 8 surgeries for pelvic organ prolapse.
 9 Q. Okay. So let's go back. We were talking
 10 about ideal candidate for the TVT.
 11 A. Yes.
 12 Q. Okay? Who is the ideal candidate for
 13 TVT-O?
 14 A. So in my practice, two things. One is
 15 that we know there's another Cochrane review that
 16 also involves Ford, I believe, but I don't think it's
 17 primarily by her, that's evaluated TVT-O and TVT, the
 18 use -- for use with intrinsic sphincter deficiency
 19 which is a more severe kind of urinary incontinence.
 20 And TVT-O in that context is a less effective. So
 21 they're not an ideal candidate.
 22 But patients who have garden variety,
 23 meaning not intrinsic sphincter deficiency, would be
 24 reasonable candidates for a TVT-O.
 25 Q. Okay. Have you ever treated a woman with

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1 to use vaginal mesh as a treatment option?
 2 MR. RUMANNEK: Object to the form.
 3 THE WITNESS: Vaginal mesh meaning mesh to
 4 use for?
 5 BY MS. WHITE:
 6 Q. Polypropylene mesh.
 7 A. Okay. And in what context? In mesh for a
 8 sacrocolpopexy placed abdominally? Mesh for vaginal
 9 repair of prolapse or mesh for a sling?
 10 Q. Stress urinary incontinence for a sling.
 11 A. Having clarified that, I still don't know
 12 that I can give you an actual percentage time number
 13 of patients that I have declined to use mesh for a
 14 suburethral sling.
 15 Q. Do you think that transvaginal surgery
 16 with mesh was considered a more straightforward
 17 procedure for doctors not trained in abdominal
 18 surgery?
 19 MR. RUMANNEK: Object to the form.
 20 THE WITNESS: I think that's actually my
 21 quote from this article.
 22 BY MS. WHITE:
 23 Q. It is. On page 3. Do you stand by that?
 24 A. So this article is really about using mesh
 25 for the repair of pelvic organ prolapse, not for

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1 an autologous fascial sling who presented more than
 2 one year after her surgery with new onset of pain
 3 with sex or vaginal pain related to the sling
 4 procedure?
 5 MR. RUMANNEK: Object to the form.
 6 THE WITNESS: So if you're reading from
 7 the article, I'd really like to see that.
 8 BY MS. WHITE:
 9 Q. I'm not reading from the article. I'm
 10 done with the article. I'm sorry.
 11 A. Are you finished with the article?
 12 Q. Yes.
 13 A. Okay. Can you say that again?
 14 Q. Yeah. Have you ever treated a woman with
 15 an autologous fascial sling who presented more than
 16 one year after her surgery with new onset of pain
 17 with sex or vaginal pain that was related to the
 18 sling procedure?
 19 MR. RUMANNEK: Object to the form.
 20 THE WITNESS: I don't know. I think -- as
 21 we have discussed, I think attribution is always
 22 challenging after six months after a procedure.
 23 Having said that, understanding what the sling
 24 is, I am not sure that I would be able to say
 25 for certain whether that's the case or not. I

53 (Pages 206 to 209)

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<p style="text-align: right;">Page 210</p> <p>1 don't generally keep in my memory the specifics</p> <p>2 on all the patients that I treat.</p> <p>3 BY MS. WHITE:</p> <p>4 Q. But you understand for the purposes of</p> <p>5 serving as an expert in this litigation, it's very</p> <p>6 important for us to understand your clinical</p> <p>7 experience. Correct?</p> <p>8 A. I do.</p> <p>9 Q. Okay. And to the best of your</p> <p>10 recollection, has that ever happened? Have you ever</p> <p>11 treated a woman with an autologous fascial sling who</p> <p>12 presented more than one year after her surgery with</p> <p>13 new onset of pain with sex or vaginal pain?</p> <p>14 MR. RUMANEK: Object to the form.</p> <p>15 THE WITNESS: I don't recall.</p> <p>16 BY MS. WHITE:</p> <p>17 Q. Okay. So, Doctor, you understand that the</p> <p>18 TVT is made of polypropylene mesh, right?</p> <p>19 A. Correct.</p> <p>20 Q. Okay. So my question to you is, are there</p> <p>21 different types of polypropylene mesh?</p> <p>22 MR. RUMANEK: Object to the form.</p> <p>23 THE WITNESS: So do you mean, are there</p> <p>24 different ways that polypropylene can be used to</p> <p>25 create mesh? Yes.</p>	<p style="text-align: right;">Page 212</p> <p>1 MR. RUMANEK: Object to the form.</p> <p>2 THE WITNESS: The specific types, no, I</p> <p>3 don't know.</p> <p>4 BY MS. WHITE:</p> <p>5 Q. Do you know what type of polypropylene the</p> <p>6 TVT-O mesh device is made from?</p> <p>7 MR. RUMANEK: Object to the form.</p> <p>8 THE WITNESS: It's also a macroporous</p> <p>9 knitted mesh.</p> <p>10 BY MS. WHITE:</p> <p>11 Q. Excuse me?</p> <p>12 A. It's a macroporous knitted polypropylene</p> <p>13 mesh.</p> <p>14 Q. And what does "macroporous" mean?</p> <p>15 A. Macroporous means that the interstices,</p> <p>16 the spaces between the knit, are larger in general</p> <p>17 than 75 microns. This is an important number because</p> <p>18 it implies that the cells in the body that can move</p> <p>19 in to promote healing, angiogenesis and prevent</p> <p>20 infection are able to make it into the space. That's</p> <p>21 why macroporous is a very important part of meshes</p> <p>22 that are used.</p> <p>23 Q. Do you know whether the Ethicon TVT is</p> <p>24 made with the same polypropylene that the Boston</p> <p>25 Scientific Solyx or Obtryx is made of?</p>
<p style="text-align: right;">Page 211</p> <p>1 BY MS. WHITE:</p> <p>2 Q. Okay. Yeah, just are there different</p> <p>3 types of it? I mean, not all polypropylene mesh</p> <p>4 devices are the exact same material?</p> <p>5 A. So they're all made of polypropylene.</p> <p>6 MR. RUMANEK: Object to the form.</p> <p>7 THE WITNESS: I'm sorry.</p> <p>8 MR. RUMANEK: Go ahead.</p> <p>9 THE WITNESS: They're all made of</p> <p>10 polypropylene. But they may be woven or knitted</p> <p>11 at greater or smaller interstices, and so I</p> <p>12 think there are different types of mesh in that</p> <p>13 context, but they're all made of the same thing,</p> <p>14 polypropylene.</p> <p>15 BY MS. WHITE:</p> <p>16 Q. Do you know what type of polypropylene the</p> <p>17 Ethicon device is made with?</p> <p>18 A. So --</p> <p>19 MR. RUMANEK: Object to the form.</p> <p>20 THE WITNESS: Polypropylene mesh used in</p> <p>21 the Ethicon devices are knitted macroporous</p> <p>22 meshes.</p> <p>23 BY MS. WHITE:</p> <p>24 Q. Do you know what type of antioxidants or</p> <p>25 if antioxidants are in the TVT mesh device?</p>	<p style="text-align: right;">Page 213</p> <p>1 MR. RUMANEK: Object to the form.</p> <p>2 THE WITNESS: I didn't evaluate either of</p> <p>3 those for purposes of this deposition.</p> <p>4 BY MS. WHITE:</p> <p>5 Q. Do you know whether or not the Boston</p> <p>6 Scientific products and the Ethicon products are made</p> <p>7 with the same grade of polypropylene?</p> <p>8 MR. RUMANEK: Object to the form.</p> <p>9 THE WITNESS: I didn't evaluate the Boston</p> <p>10 Scientific meshes for the purposes of this</p> <p>11 deposition.</p> <p>12 BY MS. WHITE:</p> <p>13 Q. Are you -- I'm sorry. Go ahead.</p> <p>14 A. I didn't evaluate those for the purposes</p> <p>15 of this deposition.</p> <p>16 Q. Well, I'm just asking you -- not for</p> <p>17 purposes of this deposition -- do you know whether or</p> <p>18 not the Ethicon products and the Boston Scientific</p> <p>19 products are made with the same grade of</p> <p>20 polypropylene? Do you know the answer to that</p> <p>21 question?</p> <p>22 MR. RUMANEK: Object to the form.</p> <p>23 THE WITNESS: I don't.</p> <p>24 BY MS. WHITE:</p> <p>25 Q. Okay. Are you a biomaterials expert?</p>

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<p style="text-align: right;">Page 214</p> <p>1 MR. RUMANEK: Object to the form.</p> <p>2 THE WITNESS: I think I'm a biomaterials</p> <p>3 expert to the extent that it's required of me</p> <p>4 for the purposes of informing my urogynecologic</p> <p>5 patient care. In other words --</p> <p>6 BY MS. WHITE:</p> <p>7 Q. What does that mean?</p> <p>8 A. What that means is that I need to</p> <p>9 understand enough about biomaterials to make good</p> <p>10 choices for patient care.</p> <p>11 Q. Okay. Do you know the type of pellets --</p> <p>12 polypropylene pellets that make up the Ethicon TVT</p> <p>13 device?</p> <p>14 MR. RUMANEK: Object to the form.</p> <p>15 THE WITNESS: There are pellets that are</p> <p>16 used to make the Ethicon TVT, but those pellets</p> <p>17 aren't available to me in my patient care.</p> <p>18 BY MS. WHITE:</p> <p>19 Q. Have you ever examined the pellets that</p> <p>20 make up the Ethicon TVT device?</p> <p>21 MR. RUMANEK: Object to the form.</p> <p>22 THE WITNESS: No.</p> <p>23 BY MS. WHITE:</p> <p>24 Q. Have you ever looked at them under a</p> <p>25 microscope?</p>	<p style="text-align: right;">Page 216</p> <p>1 And in my review of the literature, I don't see</p> <p>2 anything that I'm concerned about with regard to</p> <p>3 either TVT or TVT-O.</p> <p>4 Q. Have you ever personally conducted any</p> <p>5 bench or laboratory research on polypropylene?</p> <p>6 A. No, I have not.</p> <p>7 Q. Have you ever done studies on mesh, not</p> <p>8 using mesh, but the properties of the mesh?</p> <p>9 MR. RUMANEK: Object to the form.</p> <p>10 THE WITNESS: No, I have not.</p> <p>11 BY MS. WHITE:</p> <p>12 Q. How many different grades are there of</p> <p>13 polypropylene?</p> <p>14 MR. RUMANEK: Object to the form.</p> <p>15 THE WITNESS: I don't know.</p> <p>16 BY MS. WHITE:</p> <p>17 Q. Can you name even one antioxidant that</p> <p>18 goes into the TVT device?</p> <p>19 MR. RUMANEK: Object to the form. Asked</p> <p>20 and answered.</p> <p>21 THE WITNESS: No, I can't.</p> <p>22 BY MS. WHITE:</p> <p>23 Q. What about the TVT-O?</p> <p>24 MR. RUMANEK: Object to form. Asked and</p> <p>25 answered.</p>
<p style="text-align: right;">Page 215</p> <p>1 A. The pellets?</p> <p>2 Q. Yeah.</p> <p>3 A. No.</p> <p>4 Q. And, again, I think I asked you about the</p> <p>5 antioxidants. What antioxidants are added to the</p> <p>6 polypropylene that make up the TVT device?</p> <p>7 MR. RUMANEK: Object to the form.</p> <p>8 THE WITNESS: I don't know.</p> <p>9 BY MS. WHITE:</p> <p>10 Q. What antioxidants are added to the TVT-O</p> <p>11 polypropylene --</p> <p>12 A. I don't know.</p> <p>13 Q. -- device? Are you an expert in polymer</p> <p>14 science?</p> <p>15 MR. RUMANEK: Object to the form.</p> <p>16 THE WITNESS: Again, I'm only an expert in</p> <p>17 polymer science as it pertains to the care of my</p> <p>18 patients.</p> <p>19 BY MS. WHITE:</p> <p>20 Q. What does that mean?</p> <p>21 A. That means that when I review the medical</p> <p>22 literature, one of the things I want to know is, are</p> <p>23 the devices that I'm using safe and effective. And</p> <p>24 do they cause any problems that can be attributable</p> <p>25 to the type of tissues or items that we're using.</p>	<p style="text-align: right;">Page 217</p> <p>1 THE WITNESS: No, I cannot.</p> <p>2 BY MS. WHITE:</p> <p>3 Q. Have you ever tested different mesh</p> <p>4 material for the treatment of stress urinary</p> <p>5 incontinence?</p> <p>6 MR. RUMANEK: Object to the form.</p> <p>7 THE WITNESS: So I'm not sure what you</p> <p>8 mean by "test." I have used different mesh</p> <p>9 materials in my fellowship, had experience with</p> <p>10 mesh that's been put forth by a variety of</p> <p>11 different companies made in the form of</p> <p>12 retropubic slings mostly for the treatment of</p> <p>13 stress urinary incontinence. And I have</p> <p>14 experienced those with my patients.</p> <p>15 BY MS. WHITE:</p> <p>16 Q. You mean you've implanted different types</p> <p>17 of mesh products in different patients?</p> <p>18 A. So I think -- question would be what you</p> <p>19 mean by "testing." Have I done test tube like</p> <p>20 experiments with different meshes? No. Have I</p> <p>21 experienced them clinically? Yes, I have.</p> <p>22 Q. Okay. Do you think that the peer-reviewed</p> <p>23 literature that you brought here with you today</p> <p>24 establishes that different retropubic polypropylene</p> <p>25 mid-urethral slings made by different manufacturers</p>

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1 perform differently?
 2 MR. RUMANEK: Object to the form.
 3 THE WITNESS: Well, I'm not sure that it's
 4 exhaustive. In other words, I -- there is not a
 5 large body of literature that compares one type
 6 of sling to another. I think the one that comes
 7 to mind is the use of the Sparc sling which is a
 8 top down sling, in contrast to the use of a
 9 retropubic sling by TVT. And the data in that
 10 case is in favor, at least equivalent, with
 11 regard to the Sparc sling and the TVT sling. So
 12 I think they have -- in some reviews, the TVT is
 13 superior. In some, they're equivalent.
 14 BY MS. WHITE:
 15 Q. Are there differences in the biomechanical
 16 properties of the TVT mechanical cut and the TVT
 17 laser cut?
 18 MR. RUMANEK: Object to the form.
 19 THE WITNESS: There are.
 20 BY MS. WHITE:
 21 Q. Okay. Can you tell me what they are?
 22 A. So some of them have to do with what
 23 happens when they're placed under a great deal of
 24 tension in terms of the stretch and the amount of
 25 tensile strength it takes to extend them. But under

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1 physiologic circumstances, there's really not a lot
 2 of significant difference. And both of those things
 3 are not things that have been borne out in any of the
 4 clinical research about either of them. In other
 5 words, even if there is difference in the tensile
 6 strength or -- actually, it's not the tensile
 7 strength. In the requirement for extending the mesh,
 8 it's certainly not something that's been clinically
 9 significant.
 10 Q. And what's the basis for that opinion?
 11 A. The basis for that opinion are some of the
 12 studies that I've seen. But, also, the large amount
 13 of literature that's existed before and after the use
 14 of the different meshes.
 15 Q. And you're talking about TVT mechanical
 16 cut versus laser cut?
 17 A. Uh-huh.
 18 MR. RUMANEK: You've got to answer out
 19 loud.
 20 THE WITNESS: Yes. Sorry.
 21 MR. RUMANEK: We've got about 40 minutes
 22 left on the clock at least. Do you need a
 23 break?
 24 THE WITNESS: Let me go for a little
 25 while.

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1 BY MS. WHITE:
 2 Q. So I forget what exhibit is your report.
 3 But I want to ask you --
 4 MR. RUMANEK: 4.
 5 BY MS. WHITE:
 6 Q. Exhibit 4.
 7 A. Okay.
 8 Q. Okay. So on page 2 of your report, second
 9 paragraph from the bottom.
 10 A. Yes.
 11 Q. You talk about your clinical research.
 12 A. That's right.
 13 Q. And you've done clinical research on the
 14 cost effectiveness of sling versus pelvic floor
 15 physical therapy for treatment of stress urinary
 16 incontinence?
 17 A. Right.
 18 Q. Can you tell me about that research?
 19 A. So that is as yet unpublished. I've been
 20 working with a fellow, who is not yet presept,
 21 although it was an abstract at the American Urogyn
 22 Society. The design of that was a decision analysis,
 23 and, essentially, we looked at what the options were
 24 in terms of treatment in terms of costs overall over
 25 the long term for a population.

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1 The way a decision analysis works is that
 2 you try to imagine every conceivable sort of branch
 3 point of things that do or don't go wrong of things
 4 that do or not cost money, of how long it takes, of
 5 decisions, changes, all of those things, and then you
 6 try to understand under what circumstances is there
 7 advantage of one branch over the other.
 8 Q. Has your research concluded that a sling
 9 is more cost effective than pelvic floor physical
 10 therapy?
 11 MR. RUMANEK: Object to the form.
 12 THE WITNESS: I think it depends upon how
 13 you tweak the metrics.
 14 BY MS. WHITE:
 15 Q. Okay. Can you expand upon that?
 16 A. Sure. We'll give an exaggerated example
 17 which is probably not true because I don't have those
 18 numbers in front of me right here. But let's say,
 19 for example, that a sling procedure for some reason
 20 is very inexpensive, but physical therapy costs a lot
 21 of money. If we're looking only at a cost/benefit
 22 analysis, then it would be advantageous to choose the
 23 sling. If physical therapy is very inexpensive and
 24 slings are very cheap or physical therapy is very
 25 inexpensive and slings are very expensive, then it

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<p style="text-align: right;">Page 222</p> <p>1 would make certain sense to choose physical therapy 2 because a certain number of patients who undergo 3 physical therapy would not require surgery. And, in 4 fact, that's how a practice -- large number of my 5 patients, I urge and counsel to undergo nonsurgical 6 care first before they choose a surgery. 7 Q. And how much do you charge for the 8 placement of a TVT -- well, TVT Exact now, what does 9 that cost a patient? 10 MR. RUMANNEK: Object to the form. 11 THE WITNESS: So the cost to the patient 12 depends upon the patient's insurance coverage 13 and the agreed upon reimbursement according to 14 that. I personally am regulated by the charges 15 that are required of me by the University of 16 North Carolina and the negotiations they have 17 made with each individual insurance company. So 18 I'm not even sure I could tell you what that 19 number is. 20 BY MS. WHITE: 21 Q. So you don't even know? 22 A. No. 23 Q. What it costs a patient to -- to have a 24 TVT Exact device? 25 A. What I try to do in my practice is care</p>	<p style="text-align: right;">Page 224</p> <p>1 incontinence? 2 A. They are. 3 Q. Okay. Do you prefer mesh over the Burch 4 procedure? 5 MR. RUMANNEK: Object to the form. 6 THE WITNESS: I prefer the procedure that 7 I think is a combination of sort of the best 8 option for the patient in question. And I find 9 that more often than not, that involves a TVT 10 sling. 11 BY MS. WHITE: 12 Q. Okay. And why is that? 13 A. So, in general, in particular with 14 laparoscopic Burch, which has its advantages with 15 small incisions. The other procedures to me and in 16 my hands have longer operative times. They have the 17 greater potential for complications and in some cases 18 longer recovery. 19 For example, there's an incision for a 20 pubovaginal slings that's got the potential for pain 21 there that's very different I think from vaginal 22 incisions. I think that, in general, slings are as 23 effective for less time for recovery, for less risk 24 than the other procedures. 25 Q. In your opinion, is the Burch procedure as</p>
<p style="text-align: right;">Page 223</p> <p>1 that is -- advising patients solely on the clinical 2 needs of the patient. The University of North 3 Carolina and I, as I have taken on that 4 responsibility, have responsibility for the care of 5 the people of North Carolina. And I understand that 6 to be irrespective of their ability to pay. And so 7 we work with patients with insurance and without 8 insurance to ensure coverage. 9 There's a plan, it's called Charity Care, 10 that the University of North Carolina provides that 11 covers the surgeries for patients who are unable to 12 pay. And I don't receive anything as part of that 13 agreement personally. 14 Q. When do you expect your research on the 15 cost effectiveness of sling versus pelvic floor 16 therapy to get published? 17 A. I don't know. I worked on that when I was 18 at Massachusetts General Hospital with a fellow who's 19 there. And I would like it very much if she would 20 finish that. And if not, after about six months or a 21 year, I'll begin to work on it myself. 22 Q. Okay. And if I understand your testimony 23 here today, either the Burch procedure or pubovaginal 24 sling or mid-urethral slings, they're all within the 25 standard of care for the treatment of stress urinary</p>	<p style="text-align: right;">Page 225</p> <p>1 efficacious as the TVT procedure? 2 MR. RUMANNEK: Objection. Object to the 3 form. 4 THE WITNESS: I think the literature would 5 suggest that that's true. I think that there 6 are additional things to consider with regard to 7 a Burch that aren't problems of a TVT. For 8 example, patients who have Burch procedures are 9 more likely to have anterior vaginal wall 10 prolapse than patients would have TVTs. And so 11 with that increased risk, that's another surgery 12 that's possible for a patient with a Burch 13 that's not necessarily more likely with someone 14 who has a TVT. 15 BY MS. WHITE: 16 Q. Do you counsel your patients that mesh 17 erosion is a possible complication of mesh 18 implantation? 19 A. Absolutely. 20 Q. And then do you also counsel them if 21 there's mesh erosion, they may have to have an 22 additional procedure? 23 A. I do. 24 Q. Okay. 25 A. I also tell them that the mesh erosion</p>

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1 rate is very low and in many systematic reviews is
2 between 2 and 3 percent. So 97 percent of patients
3 or so who have slings placed don't require -- don't
4 have that complication and thus will not require that
5 surgery.

6 Q. What do you tell them about the Burch
7 procedure?

8 A. I tell them that there is a longer
9 operative time, that they have a risk of needing an
10 additional prolapse repair surgery and that, in many
11 cases, depending upon the type of surgery that I do,
12 it requires a different approach that takes an
13 enormously much -- an increased amount of surgical
14 time.

15 Q. Did you use Prolift for pelvic organ
16 prolapse?

17 MR. RUMANEK: Object to the form.

18 THE WITNESS: I think we spoke earlier
19 about this. And the answer is I have used it.
20 But it -- not commonly.

21 BY MS. WHITE:

22 Q. When was the last time you used it?

23 MR. RUMANEK: Object to the form. Asked
24 and answered.

25 THE WITNESS: I don't -- 2008 or '9,

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1 experience with my patients and their outcomes. And
2 so I would say that it's also based on my clinical
3 experience with my patients.

4 Q. Okay. Doctor, once again, how many
5 patients that you've implanted TVT with has had laser
6 cut mesh material?

7 MR. RUMANEK: Object to the form. Asked
8 and answered.

9 THE WITNESS: So I've said before, that
10 since I've been here at the University of North
11 Carolina, I've used TVT Exact and Abbrevo which
12 I know to be laser cut. So what I would say is
13 I can't give you an estimate of those before
14 then. But I know that at least those have had
15 laser cut mesh. And I know that I have been
16 doing TVT long enough to have some experience
17 with mechanically cut mesh.

18 BY MS. WHITE:

19 Q. And to be clear, I am not here to question
20 you about TVT Exact or Abbrevo.

21 A. Okay.

22 Q. Okay. How many of your patients have
23 laser cut mesh wherein you placed TVT?

24 MR. RUMANEK: Object to the form. Asked
25 and answered.

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1 somewhere in there. I don't know specifically.

2 BY MS. WHITE:

3 Q. So let's go back to your report.

4 A. Before you do, is it possible we can take
5 a little break?

6 Q. Sure.

7 (A recess transpired from 3:29 p.m. until
8 3:32 p.m.)

9 BY MS. WHITE:

10 Q. All right. So, Doctor, is it your opinion
11 that the safety of the TVT mesh is not affected by
12 whether it's mechanically cut or laser cut?

13 MR. RUMANEK: Object to the form.

14 THE WITNESS: Yes, that's my opinion.

15 BY MS. WHITE:

16 Q. And the sole basis for your opinion is
17 your review of the literature because you didn't keep
18 track of it in your patient population?

19 MR. RUMANEK: Object to the form.

20 Mischaracterizes her testimony.

21 BY MS. WHITE:

22 Q. I don't think I did, but you can answer
23 certainly.

24 A. So I think that because I haven't kept
25 track of it doesn't mean that I haven't had clinical

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1 THE WITNESS: I don't know.

2 BY MS. WHITE:

3 Q. Okay. And, Doctor, do you have an opinion
4 on whether or not the TVT is cytotoxic?

5 A. It's not cytotoxic.

6 Q. And what's your basis for that opinion?

7 MR. RUMANEK: Object to the form.

8 THE WITNESS: Well, there are the reviews
9 that I cited in my expert report and, actually,
10 in addition to that and in this literature are
11 several abstracts looking at -- oh, no, I'm
12 sorry. Those aren't those abstracts -- but
13 cytotoxicity means that cells die. There's
14 necrosis and tissue death around it. And that's
15 just not what we see in 97 percentish of
16 patients, give or take a few percentage points
17 depending on which study you look at. Patients
18 heal and they heal rapidly. So I think there
19 was the idea of cell death as a result of the
20 presence of the sling is really not borne out
21 clinically.

22 BY MS. WHITE:

23 Q. In your opinion, can the TVT device erode?

24 A. So I think we have talked about mesh
25 exposure in the vagina in the past. And I know that

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1 that can happen. And we have established that that
 2 can happen.
 3 In rare occasions, it can erode, and
 4 that's the term that's used, a mesh erosion, into
 5 other surrounding organs. Usually, the three that
 6 are commonly named would be the urethra, the bladder,
 7 and the bowel.
 8 Q. Okay.
 9 A. Those are very rare.
 10 Q. So let's turn to -- just a second. Page
 11 25 of your report and the Instructions for Use
 12 section?
 13 A. Yes.
 14 Q. So beginning with this -- the section
 15 Instructions for Use there in bold to the bottom of
 16 the page, did you -- did you draft all this?
 17 A. I did.
 18 Q. Okay. And did you draft the part where
 19 you talk about 21 CFR 801.109?
 20 A. It's in quotations, which would imply that
 21 it's a quote.
 22 Q. Where did you get that quote from?
 23 A. I looked it up on the FDA device labeling
 24 guidance website.
 25 Q. Do you know what CFR stands for?

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1 A. No, I don't. But I do know what it refers
 2 to which are different descriptions of instructions
 3 for use. In other words, there are instructions for
 4 use that are prepared for devices that don't require
 5 experts, and there are instructions for use that do
 6 require experts. And in this instance, the TVT
 7 device is specifically directed at -- in terms of the
 8 people who are to be using it are people who have
 9 specifically listed experience in care for patients
 10 with urinary incontinence and surgical experience for
 11 the treatment of urinary incontinence.
 12 Q. And tell me again where you got this, the
 13 FDA website?
 14 A. Yes. In the guidance for labeling.
 15 Q. Okay. And do you have experience with
 16 regulatory affairs or product warnings?
 17 MR. RUMANEK: Object to the form.
 18 THE WITNESS: So I'm exposed to product
 19 warnings when they become available as a
 20 physician. There are new black box warnings and
 21 so forth from the FDA and other product warnings
 22 that have become available, I've become familiar
 23 with.
 24 BY MS. WHITE:
 25 Q. Have you ever served as a regulatory or

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1 warnings expert in a case?
 2 MR. RUMANEK: Object to the form.
 3 THE WITNESS: No, I have not.
 4 BY MS. WHITE:
 5 Q. Okay. In forming your opinions in this
 6 case, did you review the TVT and TVT-O instructions
 7 for use?
 8 A. I did.
 9 Q. Because you do a whole section in your
 10 report, right?
 11 A. Right.
 12 Q. Called the Instruction for Use. And do
 13 you think the instructions for use as prepared by
 14 Ethicon for the TVT and TVT-O is adequate?
 15 A. As there are targeted at individuals like
 16 me who are surgeons trained in the care of patients
 17 with urinary incontinence and for patient -- or
 18 surgeons with experience treating urinary
 19 incontinence, yes, I do think they're adequate.
 20 Q. Okay. So what's your opinion about the
 21 purpose of the IFU?
 22 MR. RUMANEK: Object to the form. Asked
 23 and answered.
 24 THE WITNESS: I think they're a reference
 25 for surgeons who are performing these things.

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1 BY MS. WHITE:
 2 Q. And I think you testified earlier that you
 3 agree that they should be -- they should contain
 4 accurate information, correct?
 5 A. I think they should contain accurate
 6 information. But I don't think that surgeons learn
 7 to operate from these things.
 8 Q. It's to inform the surgeon about the
 9 product, right?
 10 A. Yes.
 11 Q. And the information that's contained
 12 therein about the product should be accurate, right?
 13 A. That's correct, but it's not necessarily
 14 comprehensive, either. I think that that's really
 15 the point of this quote here in that adequate
 16 directions of use cannot be prepared because they are
 17 based on the assumption that the person using the
 18 device has an extensive background and experience
 19 that they bring to the OR with them.
 20 Q. Okay. So let's turn to page 27 of your
 21 report.
 22 A. Uh-huh.
 23 Q. And under Ethicon Training, there's a
 24 paragraph about credentialing?
 25 A. Yes.

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1 Q. What -- tell me in your opinion what type
2 of doctor should be permitted to implant a TVT or
3 TVT-O device.
4 MR. RUMANEK: Object to the form.
5 THE WITNESS: Permitted by whom?
6 BY MS. WHITE:
7 Q. I guess a hospital.
8 A. So I think that's a little bit of a
9 difficult question to answer in part because I think
10 what you're -- the answer is probably something like
11 surgeons who meet the criteria for the hospital
12 credentialing body.
13 Q. So here at UNC?
14 A. Right.
15 Q. Okay. Before you implant a TVT Exact,
16 what kind of credentials do you have to have?
17 A. So I've been credentialed at the
18 University of North Carolina as a gynecologist, which
19 is part of my board certification and also part of
20 the experience that I presented in the required
21 information that the university had for me when I
22 came here. And I've been credentialed as a
23 urogynecologist.
24 And in neither case, actually, at the
25 University of North Carolina does that specifically

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1 urinary incontinence?
2 MR. RUMANEK: Object to the form.
3 THE WITNESS: So I'm not sure that for
4 anything that's considered a gold standard there
5 is a day of decision. I think that those
6 references become true as there is consensus
7 among professionals who provide the service. I
8 think that as more people do it and more data is
9 acquired about it, I think they move into a
10 position as a gold standard when their safety
11 and efficacy is proven, when it is adopted by
12 experts in the field, and when it's successfully
13 and positively compared to other previous and
14 common type of procedures that might be done for
15 the type of diagnosis.
16 BY MS. WHITE:
17 Q. Okay. I'm going to just one more time, do
18 you have an opinion as to when the TVT and TVT-O
19 became the gold standard, what year?
20 MR. RUMANEK: Object to the form.
21 THE WITNESS: I don't think that's a fair
22 characterization of how something becomes a gold
23 standard.
24 BY MS. WHITE:
25 Q. Let me ask you this: Is the Burch

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1 say anything about a TVT. I have privileges to treat
2 stress urinary incontinence and other gynecologic
3 procedures similarly, but they base their
4 credentialing not on any specific item related to TVT
5 at all.
6 Q. Okay. And, in fact, Doctor, you don't
7 have to be -- have the certification female pelvic
8 medicine and reconstructive surgery to be able to
9 surgically implant a patient with a TVT Exact here at
10 UNC?
11 A. No, you don't.
12 Q. Okay. So if you go to the last page of
13 your report, and I'm sorry I'm bouncing around. But
14 the last page?
15 A. The very last page.
16 Q. The very last page.
17 A. There's just not much on it.
18 Q. "The benefits of TVT/TVT-O far outweigh
19 the risks, and thus TVT/TVT-O have become the gold
20 standard for the surgical treatment of female stress
21 urinary incontinence."
22 Do you see that?
23 A. Yes.
24 Q. When did the TVT and TVT-O become the gold
25 standard for the surgical treatment of female stress

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1 urethropexy still a gold standard for the surgical
2 treatment of stress urinary incontinence?
3 A. It's still an acceptable treatment. I
4 think the reference to the gold standard probably,
5 although there's not a medical definition of gold
6 standard that I can think of, is based on the
7 acceptability of providers and its prominence as the
8 safest and most effective given the other things, the
9 operative time, and all the other things being equal,
10 and the most commonly used, and I think it's become
11 as such the standard against which other things are
12 compared.
13 Q. Okay. What is your basis for the opinion
14 that you wrote in your report, page 30, that the
15 TVT/TVT-O have become the gold standard for the
16 surgical treatment of female stress urinary
17 incontinence?
18 A. I think it's been stated in the literature
19 many times. I think that's how it was taught to me
20 during my surgical education, and I think that's my
21 experience.
22 Q. And is it your opinion that the TVT and
23 TVT-O devices and that procedure for stress urinary
24 incontinence is safer and more effective than the
25 Burch urethropexy?

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1 MR. RUMANEK: Object to the form.
 2 THE WITNESS: It's my opinion that TVT and
 3 TVT-O are as safe and as effective as either one
 4 of those and in many circumstances are more
 5 effective.
 6 BY MS. WHITE:
 7 Q. What are those many circumstances more
 8 effective?
 9 A. I suppose I shouldn't say many
 10 circumstances. What I mean is that in many
 11 systematic reviews, they're more effective. And in
 12 some cases, that's objective success like a PAD test
 13 or some other physician evaluation, and in some
 14 cases, that's a systematic assessment or an
 15 assessment that's based on patient experience. But I
 16 think if you hold the whole thing in balance, based
 17 on those reviews, TVT is a product that is equivalent
 18 and likely superior than most measurements.
 19 Q. Given you have only done 20 Burch
 20 procedures, how are you qualified to offer that
 21 opinion, Doctor?
 22 A. I offer my opinion based on the medical
 23 literature, on the preponderance of information
 24 comparing Burch and TVT in numbers of patients that I
 25 would never achieve in my career no matter how many

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1 patients I operated on. So the preponderance of
 2 information is really based on systematic reviews,
 3 not just the number of patients that I've operated
 4 on.
 5 Q. And, Doctor, you testified you've done
 6 about 12 pubovaginal sling implantations, right?
 7 A. That's right.
 8 Q. Okay. And I'm going to ask you the same
 9 question. Is it your opinion that the TVT and TVT-O
 10 is more safe and more effective than the pubovaginal
 11 sling procedure?
 12 A. I think it is as effective. And I think
 13 that it is in some cases safer, and based on the
 14 evidence, again, that there are unique complications
 15 to TVT, TVT-O, and pubovaginal slings that make them
 16 comparable. But when you look at all other things
 17 being equal, operative time, approach, potential
 18 complications, those sorts of things, that this is
 19 the gold standard.
 20 Q. And, again, please tell this jury, given
 21 you've only done 12 over the course of your entire
 22 career, how are you qualified to offer that opinion?
 23 A. I base my opinion about that certainly not
 24 only on the number of these I've done, but also on
 25 the medical literature which, again, evaluates many

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1 more patients than I would ever be able to operate on
 2 in the course of my lifetime. I base it on
 3 professional opinions of others in addition to
 4 myself. So I feel confident that that's enough for
 5 me to be able to say that this is my expert opinion.
 6 Q. And you'll agree with me that patients who
 7 undergo the Burch procedure or the pubovaginal sling
 8 procedure, they don't have the risk of mesh erosion
 9 into organs, right?
 10 MR. RUMANEK: Object to the form.
 11 THE WITNESS: That's correct.
 12 BY MS. WHITE:
 13 Q. Okay. And they don't run the risk of
 14 thigh abscesses, correct?
 15 MR. RUMANEK: Object to the form.
 16 THE WITNESS: I would not say that they
 17 have no risk of thigh abscess, but they have
 18 lesser risk of thigh abscess which is also
 19 extremely rare in TVT-O.
 20 BY MS. WHITE:
 21 Q. And as far as you know, you don't know of
 22 anyone who has ever died of a Burch procedure,
 23 correct?
 24 MR. RUMANEK: Object to the form.
 25 THE WITNESS: I personally do not know of

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1 anyone who has died of a Burch procedure.
 2 BY MS. WHITE:
 3 Q. And you know a doctor who knows someone
 4 who had a pubovaginal sling patient die, is that your
 5 testimony?
 6 MR. RUMANEK: Object to the form.
 7 THE WITNESS: That is my testimony.
 8 BY MS. WHITE:
 9 Q. Would you agree with me that one of the
 10 most important things in medicine for patients is
 11 that there is neutrality in their physicians, meaning
 12 their physician isn't in there pushing a product for
 13 a profit?
 14 MR. RUMANEK: Object to the form.
 15 THE WITNESS: I think the most important
 16 thing to patients for their physician is that
 17 their physician is an advocate for the very best
 18 care for the patient.
 19 BY MS. WHITE:
 20 Q. Do you agree that it's important that
 21 there is neutrality in clinical studies and that the
 22 evidence that's presented in peer-reviewed literature
 23 be neutral?
 24 MR. RUMANEK: Object to the form.
 25 THE WITNESS: I think that "neutral" is a

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<p>1 very difficult word to use with regard to</p> <p>2 peer-reviewed literature because a properly</p> <p>3 conducted clinical trial is designed to show</p> <p>4 differences and so, by definition, isn't</p> <p>5 neutral. It's going to show a superior product</p> <p>6 one over the other.</p> <p>7 BY MS. WHITE:</p> <p>8 Q. Okay. Let's talk more about neutral and</p> <p>9 what I'm talking about.</p> <p>10 A. Okay.</p> <p>11 Q. Is it important for authors of</p> <p>12 peer-reviewed articles to disclose any financial</p> <p>13 relationships with manufacturers?</p> <p>14 MR. RUMANEK: Object to the form.</p> <p>15 THE WITNESS: It is important for authors</p> <p>16 to disclose financial relationships and other</p> <p>17 relationships such as board membership or other</p> <p>18 obligations.</p> <p>19 BY MS. WHITE:</p> <p>20 Q. I mean, is that important for you as a</p> <p>21 physician when you're reading a peer-reviewed article</p> <p>22 to understand whether or not the authors have a</p> <p>23 relationship with a pharmaceutical company or a</p> <p>24 medical device company?</p> <p>25 MR. RUMANEK: Object to the form.</p>	<p>1 authors or investigators do not have a financial</p> <p>2 stake or interest in the outcome of that study?</p> <p>3 MR. RUMANEK: Object to the form.</p> <p>4 THE WITNESS: I think investigators always</p> <p>5 have an interest in the outcome of the study.</p> <p>6 BY MS. WHITE:</p> <p>7 Q. Always?</p> <p>8 A. They always do. I mean, it may not be a</p> <p>9 financial interest, but they have an interest.</p> <p>10 Q. Okay. I'm asking you about a financial</p> <p>11 stake. I asked you a very clear question. Do you</p> <p>12 want me to repeat it?</p> <p>13 A. Please.</p> <p>14 Q. Would you agree with me that when</p> <p>15 designing a study, it is important that the study</p> <p>16 authors or investigators do not have a financial</p> <p>17 stake or financial interest in the outcome of that</p> <p>18 study?</p> <p>19 MS. WHITE: Object to the form.</p> <p>20 THE WITNESS: Ideally, there would not be</p> <p>21 a need for any sort of a financial obligation</p> <p>22 for a study, as a result of study. But funding</p> <p>23 of studies is a necessary item so I realize that</p> <p>24 it's probably a necessary part of research,</p> <p>25 although sometimes people have financial</p>
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<p>1 THE WITNESS: It's important for me to</p> <p>2 know where funding comes from regardless of its</p> <p>3 source. And relationships regardless of their</p> <p>4 relationship.</p> <p>5 BY MS. WHITE:</p> <p>6 Q. And whenever funding comes into play,</p> <p>7 would you agree there is at least a potential for</p> <p>8 bias?</p> <p>9 MR. RUMANEK: Object to the form.</p> <p>10 THE WITNESS: I think there is potential</p> <p>11 for bias for anyone who does research and</p> <p>12 because the goal of a research is publication.</p> <p>13 And so unless you want to indict the entire</p> <p>14 medical literature, I think understanding that</p> <p>15 bias is implicit in research of any kind is</p> <p>16 probably important.</p> <p>17 Having said that, I think that in this</p> <p>18 massive evidence that's present for TVT and</p> <p>19 TVT-O, the value is really with the volume that</p> <p>20 there are all kinds of people who have</p> <p>21 contributed to the medical literature. And it's</p> <p>22 been generally consistent.</p> <p>23 BY MS. WHITE:</p> <p>24 Q. Would you agree with me that when</p> <p>25 designing a study, it's important that the study</p>	<p>1 obligations or financial influence.</p> <p>2 BY MS. WHITE:</p> <p>3 Q. There are many studies out there where the</p> <p>4 designers and investigators do not have a financial</p> <p>5 stake, do you agree?</p> <p>6 A. Yes.</p> <p>7 Q. Suppose that you are an investigator for a</p> <p>8 study regarding a medical device that is funded by a</p> <p>9 medical device or pharmaceutical company. Should you</p> <p>10 be paid more if the results of the study come out one</p> <p>11 way than if the results come out another way?</p> <p>12 MR. RUMANEK: Object to the form.</p> <p>13 Improper hypothetical.</p> <p>14 THE WITNESS: No.</p> <p>15 MS. WHITE: Let's go off the record.</p> <p>16 (A recess transpired from 3:55 p.m.</p> <p>17 until 3:58 p.m.)</p> <p>18 BY MS. WHITE:</p> <p>19 Q. Okay. Back on the record.</p> <p>20 A. Okay.</p> <p>21 Q. Dr. Pulliam. So getting back on the IFU.</p> <p>22 A. IFU, okay.</p> <p>23 Q. And you really don't need to look at it,</p> <p>24 but I want to talk a little bit about it. Is it your</p> <p>25 opinion that an adequate directions for use or</p>

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1 instructions for use for the TVT and TVT-O cannot be
 2 prepared?
 3 MR. RUMANEK: Object to the form.
 4 THE WITNESS: Well, I think what my
 5 opinion is, is that, first of all, adequate
 6 depends upon who your target audience is. I
 7 mean, for example, to explain to me with
 8 surgical experience something would require a
 9 very different language and terminology and
 10 probably a very different degree of explanation
 11 than to explain to someone who has little
 12 surgical experience or no surgical experience.
 13 And I don't think that the target audience is
 14 someone with no surgical experience so I think
 15 that given that and given the expertise of the
 16 people in the audience, it's really difficult to
 17 know what adequate means.
 18 BY MS. WHITE:
 19 Q. Okay. And, again, what about the
 20 physician who doesn't have your level of experience?
 21 A. Right.
 22 Q. What is Ethicon doing to prevent those
 23 doctors from implanting the TVT or TVT-O?
 24 MR. RUMANEK: Object to the form.
 25 THE WITNESS: So two things. One is --

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1 I'm not sure. I think it would be something
 2 that is necessarily the sole, if at all,
 3 responsibility of Ethicon. In other words,
 4 there are many things that I need to do before
 5 I'm allowed to do any surgery, let alone implant
 6 anything. I need to be certified by the board
 7 specialty in which I've trained which implies
 8 that I have done training in medical school. I
 9 need to be credentialed by the hospital in which
 10 I work so that they are comfortable in my
 11 performance. And I need to continue to undergo
 12 that kind of review that occurs on a regular
 13 basis by morbidity and mortality evaluations and
 14 other evaluations of complications or problems.
 15 And so I think -- Ethicon's responsibility
 16 is not necessarily part of what I would expect
 17 of them. I think those are things also that you
 18 would expect out of a professional to decide
 19 what's needed to provide training that's going
 20 to really allow them to take care of patients.
 21 BY MS. WHITE:
 22 Q. So let's talk a little bit about the
 23 Ethicon training. You testified early this morning
 24 that you did not attend Ethicon training other than
 25 through Dr. Rosenblatt for implantation of the TVT or

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1 TVT-O; is that correct?
 2 A. That's right, not to my recollection.
 3 Q. Okay. So do you have an opinion or what
 4 are your opinions regarding the Ethicon training that
 5 you discuss in your report?
 6 A. Where are my --
 7 Q. So let's go to that. Do you see it,
 8 Doctor?
 9 A. I do.
 10 Q. What page are you on?
 11 A. I'm on page 27.
 12 Q. So who drafted this portion of your report
 13 on Ethicon training?
 14 A. I'm sorry?
 15 Q. Who drafted this portion of your report on
 16 Ethicon training?
 17 A. I did.
 18 Q. Okay. And what is your basis for the
 19 substance of this report about Ethicon training?
 20 A. I'm not sure I understand the question.
 21 Q. I mean, how do you know anything about
 22 Ethicon training for the TVT and TVT-O?
 23 A. So I recall that what I said was that my
 24 own training included my fellowship training and the
 25 experience I had with the physicians that were part

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1 of the fellowship. But I think also we discussed the
 2 fact that I was present at the trainings, some of
 3 them, that may or may not have been Ethicon, but I
 4 certainly attended trainings for slings like this.
 5 Right?
 6 Q. Okay. But we're talking Ethicon training.
 7 A. Right.
 8 Q. So I want you to tell me what types of
 9 Ethicon training was provided for TVT and TVT-O.
 10 A. What types were?
 11 Q. Yeah.
 12 A. So cadaver labs, for example.
 13 Q. And did you ever attend one for TVT or
 14 TVT-O?
 15 A. I don't know that I can say whether I
 16 happen attended one for TVT or TVT-O. I have
 17 attended cadaver labs for slings in the past
 18 including things like this. And I have looked at the
 19 information provided to me about those -- those
 20 teachings. And I have reviewed monographs and other
 21 things that have been provided by Ethicon.
 22 Q. Okay. So your opinions regarding the
 23 adequacy of Ethicon training on for the TVT and TVT-O
 24 is based upon your review of the documents which have
 25 been provided to you by Ethicon?

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1 MR. RUMANEK: Object to the form.
 2 THE WITNESS: So, actually, I don't think
 3 I've ever really spoken about the adequacy of it
 4 for anything. I think I -- I've said here,
 5 actually, that physician training is intended to
 6 supplement, and training and knowledge is not a
 7 primary source of expertise.
 8 BY MS. WHITE:
 9 Q. Do you have an opinion as to whether or
 10 not providing -- training provided by Ethicon was
 11 adequate for the TVT and TVT-O?
 12 MR. RUMANEK: Object to the form.
 13 Mischaracterizes.
 14 THE WITNESS: So what I would say is that
 15 based on the fact that the MAUDE database, which
 16 is a broader reporting, also in that
 17 Ford/Cochrane review of complications on a
 18 national basis, that the complication rate from
 19 placing these things, slings, is very low. And
 20 I think that might be one actual clinical factor
 21 that attests to the adequacy of training of
 22 physicians who perform slings.
 23 BY MS. WHITE:
 24 Q. Is it your opinion that the TVT and TVT-O
 25 are safe because they come with a tracking lot number

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1 and because MDR and MAUDE permit the tracking of
 2 complications?
 3 MR. RUMANEK: Object to the form.
 4 THE WITNESS: I don't think they are safe
 5 because of that. I think that's a very useful
 6 thing in terms of understanding complications.
 7 But I don't think that makes them safe.
 8 BY MS. WHITE:
 9 Q. What is the basis for your opinion that
 10 TVT and TVT-O are safe?
 11 MR. RUMANEK: Object to the form.
 12 THE WITNESS: I think there are lots of
 13 bases. I think I have my clinical experience.
 14 I think I have the literature. And I think I
 15 have the discussions that I've had with
 16 professionals other than myself.
 17 BY MS. WHITE:
 18 Q. Okay. Have you ever implanted a patient
 19 with an outdated Prolift kit that was dropped off to
 20 you by a Ethicon sales rep by the name of Melissa
 21 Doyle?
 22 MR. RUMANEK: Object to the form.
 23 THE WITNESS: So I know who Melissa Doyle
 24 is. And I don't recall that, but it's certainly
 25 possible.

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1 BY MS. WHITE:
 2 Q. Okay. And what would be the danger of
 3 implanting a patient with an out-of-date Prolift kit?
 4 MR. RUMANEK: Object to the form. It
 5 assumes facts.
 6 THE WITNESS: Given my recollection of
 7 patient outcomes, I don't think there was any
 8 danger.
 9 MS. WHITE: Make this an exhibit.
 10 (Pulliam 9 was marked for identification.)
 11 BY MS. WHITE:
 12 Q. Who is Melissa Doyle?
 13 A. Melissa Doyle is an Ethicon rep or was. I
 14 don't know if she still is or not.
 15 Q. So I'm handing you what we have marked as
 16 Exhibit 9. This is an e-mail it looks like from
 17 Marie Egan.
 18 A. Yes.
 19 Q. Who is that?
 20 A. She was in charge of materials and
 21 purchasing at Massachusetts General Hospital.
 22 Q. Okay.
 23 MR. RUMANEK: Let me just note we're over
 24 five hours now. I'm going to let you finish
 25 this line, but be as brief as you can.

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1 MS. WHITE: I'm almost finished.
 2 BY MS. WHITE:
 3 Q. And this e-mail is from Marie to Melissa.
 4 And she says, "Obviously your opportunity is to
 5 capture the business." Marie is talking to Melissa,
 6 the sales rep. "Even more desirable with Mandy
 7 Pulliam on board."
 8 A. Yes.
 9 Q. Do you recall dealing with Melissa in
 10 regards to TVT-O and TVT-Secur?
 11 A. Not specifically, no.
 12 Q. What does she mean by the fact that you're
 13 on board?
 14 MR. RUMANEK: Object to the form.
 15 THE WITNESS: So it would be hard for me
 16 to know exactly what she meant. Although I
 17 could make a supposition that when I joined May
 18 Wakamatsu at Massachusetts General Hospital,
 19 that meant that instead of there being one,
 20 there were two physicians and so the opportunity
 21 for two physicians to use a product instead of
 22 one meant an increased potential for business.
 23 BY MS. WHITE:
 24 Q. Were you aware that Ethicon frequently
 25 referred to you as a VIP customer?

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1 MR. RUMANEK: Object to the form.
 2 THE WITNESS: No, I wasn't aware.
 3 BY MS. WHITE:
 4 Q. Were you aware that Ethicon frequently
 5 referred to you as a high volume implanter of their
 6 products?
 7 MR. RUMANEK: Object to the form.
 8 THE WITNESS: No, I haven't seen that
 9 information.
 10 BY MS. WHITE:
 11 Q. Would it surprise you?
 12 MR. RUMANEK: Object to the form.
 13 THE WITNESS: So because of my association
 14 with Peter Rosenblatt and also the fact that I
 15 do pretty much exclusively pelvic reconstructive
 16 surgery that treats urinary incontinence and
 17 pelvic organ prolapse, it would make sense that
 18 I was a high volume user of products that are
 19 used for pelvic reconstructive surgery and
 20 urinary incontinence.
 21 BY MS. WHITE:
 22 Q. And Melissa did her best over the years to
 23 make sure you got invited to VIP activities at
 24 various AUG functions and stuff like that, right,
 25 throughout the years?

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1 MR. RUMANEK: Object. Object to the form.
 2 THE WITNESS: I don't know if Melissa did
 3 her best. I don't know anything about that.
 4 BY MS. WHITE:
 5 Q. I think that's all we have. Thank you,
 6 Doctor.
 7 A. Thank you.
 8 EXAMINATION
 9 BY MR. RUMANEK:
 10 Q. All right. I just have a few questions I
 11 want to follow up on. Dr. Pulliam, do you recall
 12 throughout the course of the deposition you were
 13 asked to give estimates for the number of TVTs you
 14 implanted, the number of TVT-Os you implanted, the
 15 number of TVT Abbrevos and the TVT Exacts. Do you
 16 recall those questions?
 17 A. I do.
 18 Q. And were the numbers that you provided in
 19 the deposition absolutely hard and fast numbers or
 20 were you giving estimates?
 21 A. They were absolutely not hard and fast
 22 numbers. They would be estimates, complete
 23 estimates.
 24 Q. Okay. And is the same true with respect
 25 to the questions that you were asked about the

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1 complications that you had seen in your practice?
 2 A. Absolutely.
 3 Q. And did you attempt to the best of your
 4 ability as you sit here today to answer those
 5 questions as truthfully as you could?
 6 A. I attempted to answer them to the best of
 7 my ability.
 8 Q. Okay. You recall counsel asking you
 9 questions whether or not you had reviewed certain
 10 Ethicon internal documents?
 11 A. Yes.
 12 Q. Okay. Do you recall in the course of
 13 preparing your report reviewing Ethicon internal
 14 documents that discussed or mentioned at least the
 15 potential for roping of mesh?
 16 A. Yes.
 17 Q. Do you recall reviewing Ethicon internal
 18 documents that mention the potential for fraying of
 19 mesh?
 20 A. Yes.
 21 Q. Do you recall reviewing internal Ethicon
 22 documents that mention potential for particle loss?
 23 A. Yes.
 24 Q. Do you recall reviewing Ethicon internal
 25 documents that mention the potential for

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1 cytotoxicity?
 2 A. Yes.
 3 Q. Do you recall reviewing Ethicon internal
 4 documents that mention the potential and possibility
 5 of degradation?
 6 A. Yes.
 7 Q. Did you consider those documents that you
 8 reviewed in forming the opinions that are set forth
 9 in your expert report and that you've testified about
 10 today?
 11 A. I considered those in addition to the
 12 literature that is available to me within the
 13 scientific community.
 14 Q. And considering the materials that you
 15 reviewed, do you hold your opinions set forth in your
 16 report and that you've testified today to a
 17 reasonable degree of medical certainty?
 18 A. I do.
 19 Q. And counsel didn't show you any documents
 20 to confirm whether or not you recall reviewing any
 21 particular documents about roping, fraying, particle
 22 loss, cytotoxicity or degradation, did she?
 23 A. No, she didn't.
 24 Q. And counsel asked you a number of
 25 questions about different, what I'll refer to as

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1 design issues, but potential for fraying, particle
 2 loss, cytotoxicity, roping, perhaps curling. Do you
 3 recall those questions about the nature of the mesh
 4 and the design of the mesh?
 5 A. I do recall them.
 6 Q. And have you addressed many of the topics
 7 that she asked you about today in your expert report?
 8 A. I have.
 9 Q. Okay. And are the basis for your opinions
 10 set forth in your expert report?
 11 A. They are.
 12 Q. Okay. Dr. Pulliam, if I told you that CFR
 13 stands for Code of Federal Regulations, would that
 14 impact your opinions in any way?
 15 A. No, it would not.
 16 Q. And Dr. Pulliam, the opinions that you've
 17 given in response to counsel's questions today, have
 18 those been opinions that you hold to a reasonable
 19 degree of medical certainty?
 20 A. They are.
 21 Q. And are those based on your training,
 22 experience, knowledge, discussions with -- let me
 23 ask -- strike that.
 24 What are your opinions based on that
 25 you've testified about today?

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1 A. They're based on my review of the medical
 2 literature, my clinical experience, my training, on
 3 my attendance at national and local meetings, and on
 4 my discussions with peers.
 5 Q. Okay. Thank you. That's all the
 6 questions. For now.
 7 MS. WHITE: I don't think I have anything.
 8 (Off record discussion.)
 9 COURT REPORTER: Do you want a rough
 10 draft?
 11 MS. WHITE: Yes.
 12 (The deposition was concluded
 13 at 4:15 p.m.)
 14 (Signature reserved.)
 15
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1 STATE OF NORTH CAROLINA
 2 COUNTY OF MECKLENBURG
 3
 4 I, Karen K. Kidwell, RMR, CRR, CLR, in and
 5 for the State of North Carolina, do hereby certify that
 6 there came before me on Friday, March 31, 2017,
 7 SAMANTHA JOY PULLIAM, M.D., who was by me duly sworn to
 8 testify to the truth and nothing but the truth of her
 9 knowledge concerning the matters in controversy in this
 10 cause; that the witness was thereupon examined under
 11 oath, the examination reduced to typewriting under my
 12 direction, and the deposition is a true record of the
 13 testimony given by the witness.
 14 I further certify that I am neither attorney
 15 or counsel for, nor related to or employed by, any
 16 attorney or counsel employed by the parties hereto or
 17 financially interested in the action.
 18 This the 4th day of April, 2017.
 19
 20
 21
 22 Karen K. Kidwell, RMR, CRR, CLR
 23 Notary Public #19971050142
 24
 25

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1 ACKNOWLEDGMENT OF DEPONENT
 2
 3 I, SAMANTHA JOY PULLIAM, M.D., do hereby
 4 certify that I have read the foregoing pages and that
 5 the same is a correct transcription of the answers
 6 given by me to the questions therein propounded,
 7 except for the corrections or changes in form or
 8 substance, if any, noted in the attached Errata
 9 Sheets.
 10
 11
 12
 13 SAMANTHA JOY PULLIAM, M.D. Date
 14
 15
 16 Subscribed and sworn to before me this ____ day
 17 of _____, 2017.
 18
 19
 20
 21 Notary Public
 22 My Commission Expires:
 23
 24
 25

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